284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Cover Page

Order ID : Q3154

Project ID : 179 Vermont St Brooklyn NY

Client : GFE LLC

Lab Sample Number	Client Sample Number
Q3154-01	SV1
Q3154-02	SV2

I certify that the 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 hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : 23154

Client Contact Information	Bottle Order ID : **B2509040**	Courier : F GALDUN	1 of 2 COCs
Client ID : **GFEL01** Project ID : **All Projects**		Sampler Name(s) FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **Frank galdun**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 179 VERMONT ST. BROOKLYN, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV1	9/19/25	8:41	10:41	0JEL 29	6	68	68	-30	-5.5	10707	10267	6 L	50	VL042854.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 4L

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: SAM	Date/Time: 9/17/25	Canisters Received by:	Date/Time:		
Samples Relinquished by:	Date/Time: 9/19/25	Received by:	Date/Time: 9/19/25 1230	**B2509040 - 1**	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : Q 3154

Client Contact Information	Bottle Order ID : **B2509040**	Courier : F GALDUN	2 of 2 COCs
Client ID : **GFEL01** Project ID : **All Projects**		Sampler Name(s) FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **Frank galdun**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 179 VERMONT ST BROOKLYN, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV2	9/9/25	9:57	11:33	OVER 30	0	68	68	-30	-2.2	10185	10595	6 L	50	VL042828.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 33.5

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 09/17/25	Canisters Received by:		Date/Time:	
Samples Relinquished by: FEDEX	Date/Time: 9/19/25	Received by:		Date/Time: 9/19/25 1230	B2509040 - 2
Relinquished by:	Date/Time:	Received by:		Date/Time:	

Date

1

ANALYTE LIST

PCE
TCE
CIS-1,2-DCE
1,1,1-TCA
1,1-DCE
VINYL CHLORIDE
BENZENE
ETHYLBENZENE
NAPHTHALENE
CYCLOHEXANE
2,2,4-TRIMETHYLBENZENE
1,3,5-TRIMETHYLBENZENE
O-XYLENE
HEPTANE
HEXANE
TOLUENE

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech
Location: 284 Sheffield Street, Mountainside, NJ 7092
~~NAME~~:
Title: Sample Custodian
Field Sample Seal No.: Q3154
Date Broken: 9/19/2025
Military Time Seal Broken: 12:30:00
Case No.: ~~All Projects~~ 179 Vermont St Brooklyn NY
Analytical Parameter/Fraction: VOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3154-01	SV1		
Q3154-02	SV2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/19/25	1336	Signature	Signature	
		Printed Name Cassanova Rene	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy

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CASE NARRATIVE

GFE LLC
Project Name: 179 Vermont St Brooklyn NY
Project # N/A
Order ID # Q3154
Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:
2 Air samples were received on 09/19/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator.The analysis of VOCMS Group2 was based on method TO-15.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Due to potential high concentration of target analytes, Samples SV1, SV2 were initially diluted.

E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q3154**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **10/03/2025**

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LAB CHRONICLE

OrderID:	Q3154	**OrderDate:**	9/19/2025 12:58:00 PM
Client:	GFE LLC	**Project:**	179 Vermont St Brooklyn NY
Contact:	Frank Galdun	**Location:**	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3154-01	**SV1**	**Air**			**09/19/25**			**09/19/25**
			VOCMS Group2	TO-15			09/24/25	
Q3154-02	**SV2**	**Air**			**09/19/25**			**09/19/25**
			VOCMS Group2	TO-15			09/24/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3154

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**SV1**							
Q3154-01	SV1	Air	Heptane	10.3		3.48	10.3	ug/m3
Q3154-01	SV1	Air	Cyclohexane	24.1		3.79	8.61	ug/m3
Q3154-01	SV1	Air	1,1,1-Trichloroethane	55.6		0.44	0.82	ug/m3
Q3154-01	SV1	Air	Benzene	31.0		1.28	7.99	ug/m3
Q3154-01	SV1	Air	Trichloroethene	356		0.64	0.81	ug/m3
Q3154-01	SV1	Air	Toluene	24.1		3.01	9.42	ug/m3
Q3154-01	SV1	Air	Tetrachloroethene	441		0.54	1.02	ug/m3
Q3154-01	SV1	Air	o-Xylene	6.95	J	4.78	10.9	ug/m3
Q3154-01	SV1	Air	1,2,4-Trimethylbenzene	4.42	J	4.42	12.3	ug/m3
Q3154-01	SV1	Air	Hexane	54.6		2.82	8.81	ug/m3
			Total Voc :	1010				
			Total Concentration:	1010				
Client ID:	**SV2**							
Q3154-02	SV2	Air	Heptane	9.02		1.39	4.10	ug/m3
Q3154-02	SV2	Air	Cyclohexane	32.7		1.51	3.44	ug/m3
Q3154-02	SV2	Air	1,1,1-Trichloroethane	2.84		0.16	0.33	ug/m3
Q3154-02	SV2	Air	Benzene	7.99		0.51	3.19	ug/m3
Q3154-02	SV2	Air	Trichloroethene	8.60		0.27	0.32	ug/m3
Q3154-02	SV2	Air	Toluene	13.9		1.21	3.77	ug/m3
Q3154-02	SV2	Air	Tetrachloroethene	10.8		0.20	0.41	ug/m3
Q3154-02	SV2	Air	Ethyl Benzene	2.95	J	1.65	4.34	ug/m3
Q3154-02	SV2	Air	m/p-Xylene	8.69		3.56	8.69	ug/m3
Q3154-02	SV2	Air	o-Xylene	5.65		1.82	4.34	ug/m3
Q3154-02	SV2	Air	1,2,4-Trimethylbenzene	3.93	J	1.77	4.92	ug/m3
Q3154-02	SV2	Air	Naphthalene	2.10		0.16	1.05	ug/m3
Q3154-02	SV2	Air	Hexane	25.4		1.13	3.52	ug/m3
			Total Voc :	135				
			Total Concentration:	135				

QC SUMMARY

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Surrogate Summary

SDG No.: Q3154

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3154-01	SV1	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
Q3154-02	SV2	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q3154-02DUP	SV2DUP	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
VL0924ABL01	VL0924ABL01	1-Bromo-4-Fluorobenzene	10	9.92	99		65	135
VL0924ABS01	VL0924ABS01	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3154 **Analytical Method:** SWTO-15

Client: GFE LLC **Datafile :** VL043003.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0924ABS01	Vinyl Chloride	10	9.40	ppbv	94			70	130	
	Heptane	10	9.30	ppbv	93			70	130	
	1,1-Dichloroethane	10	10.4	ppbv	104			70	130	
	Cyclohexane	10	9.60	ppbv	96			70	130	
	cis-1,2-Dichloroethene	10	9.90	ppbv	99			70	130	
	1,1,1-Trichloroethane	10	10.0	ppbv	100			70	130	
	Benzene	10	10.2	ppbv	102			70	130	
	Trichloroethene	10	10.5	ppbv	105			70	130	
	Toluene	10	9.90	ppbv	99			70	130	
	Tetrachloroethene	10	10.9	ppbv	109			70	130	
	Ethyl Benzene	10	10.4	ppbv	104			70	130	
	o-Xylene	10	10.7	ppbv	107			70	130	
	1,3,5-Trimethylbenzene	10	11.0	ppbv	110			70	130	
	1,2,4-Trimethylbenzene	10	11.1	ppbv	111			70	130	
	Naphthalene	10	11.7	ppbv	117			70	130	
	Hexane	10	9.40	ppbv	94			70	130	

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Duplicate Sample Summary

Lab Sample Id :	Q3154-02DUP		Q3154-02	
Client Id :	SV2DUP		SV2	
DF :	2		2	
Datafile :	VL043008.D		VL043007.D	
Anal Date & Time :	09/24/2025	14:06	09/24/2025	13:31

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0.52	0.52	0
1,1-Dichloroethane	0	0	0
1,2,4-Trimethylbenzene	0.82	0.8	2.5
1,3,5-Trimethylbenzene	0	0	0
Benzene	2.5	2.5	0
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	9.6	9.5	1
Ethyl Benzene	0.72	0.68	5.7
Heptane	2.2	2.2	0
Hexane	7.3	7.2	1.4
Naphthalene	0.42	0.4	4.9
o-Xylene	1.3	1.3	0
Tetrachloroethene	1.7	1.6	6.1
Toluene	3.8	3.7	2.7
Trichloroethene	1.5	1.6	6.5
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

Client ID
SV2DUP

Lab Name: Alliance | Contract: GFEL01

Lab Code: ACE | SDG NO.: Q3154

Lab File ID: VL043008.D | Lab Sample ID: Q3154-02DUP

Date Analyzed: 09/24/2025 | Time Analyzed: 14:06

GC Column: RTX-1 ID: 0.32 (mm) | Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SV2DUP	Q3154-02DUP	VL043008.D	09/24/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VL0924ABL01

Lab Name: Alliance | Contract: GFEL01

Lab Code: ACE | SDG NO.: Q3154

Lab File ID: VL043002.D | Lab Sample ID: VL0924ABL01

Date Analyzed: 09/24/2025 | Time Analyzed: 09:51

GC Column: RTX-1 ID: 0.32 (mm) | Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0924ABS01	VL0924ABS01	VL043003.D	09/24/2025
SV2	Q3154-02	VL043007.D	09/24/2025
SV1	Q3154-01	VL043010.D	09/24/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: GFEL01

Lab Code: ACE | SDG NO.: Q3154

Lab File ID: VL042949.D | BFB Injection Date: 09/22/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:55

GC Column: RTX-1 ID: 0.32 (mm) | Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	54.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	66.2
175	4.0 - 9.0% of mass 174	4.9 (7.4) 1
176	93.0 - 101.0% of mass 174	64 (96.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042950.D	09/22/2025	09:39
VSTDICC002	VSTDICC002	VL042951.D	09/22/2025	10:14
VSTDICC001	VSTDICC001	VL042952.D	09/22/2025	10:48
VSTDICC0.5	VSTDICC0.5	VL042953.D	09/22/2025	11:22
VSTDICC0.1	VSTDICC0.1	VL042954.D	09/22/2025	11:56
VSTDICC0.03	VSTDICC0.03	VL042955.D	09/22/2025	12:30
VSTDICC015	VSTDICC015	VL042956.D	09/22/2025	13:05

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: GFEL01

Lab Code: ACE | SDG NO.: Q3154

Lab File ID: VL043000.D | BFB Injection Date: 09/24/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:20

GC Column: RTX-1 ID: 0.32 (mm) | Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.6
75	30.0 - 66.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 120.0% of mass 95	71.5
175	4.0 - 9.0% of mass 174	5.1 (7.2) 1
176	93.0 - 101.0% of mass 174	68.7 (96) 1
177	5.0 - 9.0% of mass 176	4.5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL043001.D	09/24/2025	09:03
VL0924ABL01	VL0924ABL01	VL043002.D	09/24/2025	09:51
VL0924ABS01	VL0924ABS01	VL043003.D	09/24/2025	10:47
SV2	Q3154-02	VL043007.D	09/24/2025	13:31
SV2DUP	Q3154-02DUP	VL043008.D	09/24/2025	14:06
SV1	Q3154-01	VL043010.D	09/24/2025	15:39

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01

Lab Code: ACE SDG NO.: Q3154

Lab File ID: VL043001.D Date Analyzed: 09/24/2025

Instrument ID: MSVOA_L Time Analyzed: 09:03

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	149118	2.79	443016	3.96	402155	8.89
UPPER LIMIT	208765	3.12	620222	4.29	563017	9.22
LOWER LIMIT	89470.8	2.46	265810	3.63	241293	8.56
EPA SAMPLE NO.						
SV1	153782	2.79	473304	3.96	423014	8.89
SV2	153511	2.79	468363	3.96	423322	8.89
SV2DUP	156171	2.79	479208	3.96	432263	8.89
VL0924ABL01	149932	2.79	453605	3.96	394017	8.89
VL0924ABS01	150936	2.79	449573	3.96	405131	8.89

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	09/19/25
Project:	179 Vermont St Brooklyn NY	Date Received:	09/19/25
Client Sample ID:	SV1	SDG No.:	Q3154
Lab Sample ID:	Q3154-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043010.D	5		09/24/25 15:39	VL092425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	0.13	0.33	U	0.33	0.38	
142-82-5	Heptane	2.50	10.3		3.48	10.3	
75-34-3	1,1-Dichloroethane	0.65	2.63	U	2.63	10.1	
110-82-7	Cyclohexane	7.00	24.1		3.79	8.61	
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	U	1.98	9.91	
71-55-6	1,1,1-Trichloroethane	10.2	55.6		0.44	0.82	
71-43-2	Benzene	9.70	31.0		1.28	7.99	
79-01-6	Trichloroethene	66.2	356		0.64	0.81	
108-88-3	Toluene	6.40	24.1		3.01	9.42	
127-18-4	Tetrachloroethene	65.0	441		0.54	1.02	
100-41-4	Ethyl Benzene	0.95	4.13	U	4.13	10.9	
95-47-6	o-Xylene	1.60	6.95	J	4.78	10.9	
108-67-8	1,3,5-Trimethylbenzene	0.90	4.42	U	4.42	12.3	
95-63-6	1,2,4-Trimethylbenzene	0.90	4.42	J	4.42	12.3	
91-20-3	Naphthalene	0.070	0.37	U	0.37	2.62	
110-54-3	Hexane	15.5	54.6		2.82	8.81	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	154000		2.787			
540-36-3	1,4-Difluorobenzene	473000		3.959			
3114-55-4	Chlorobenzene-d5	423000		8.885			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043010.D
Acq On : 24 Sep 2025 15:39
Operator : SY/MD
Sample : Q3154-01 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Sep 25 01:57:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	153782	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	473304	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	423014	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	317512	10.055	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	2629	0.127	ppbv		99
9) Propene	1.489	41	30943m	2.759	ppbv		
10) Heptane	4.981	43	14555m	0.486	ppbv		
11) Trichlorofluoromethane	1.877	101	37652	1.888	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.143	101	4960	0.307	ppbv		87
13) Ethanol	1.722	45	8738	8.032	ppbv		99
15) Acetone	1.835	43	291560	14.556	ppbv		96
17) tert-Butyl alcohol	2.042	59	3191	0.145	ppbv	#	72
19) Isopropyl Alcohol	1.887	45	17944m	1.490	ppbv		
24) 1,1-Dichloroethane	2.411	63	2049	0.123	ppbv	#	86
26) Hexane	2.826	57	71281	3.089	ppbv	#	41
27) Carbon Disulfide	2.152	76	49869	2.410	ppbv	#	85
29) Chloroform	2.848	83	9515	0.315	ppbv		95
30) Cyclohexane	3.858	84	26849	1.392	ppbv		96
32) 1,1,1-Trichloroethane	3.369	97	66252	2.033	ppbv		98
34) 2-Butanone	2.560	43	26819	0.809	ppbv		96
35) Carbon Tetrachloride	3.764	117	3548m	0.115	ppbv		
36) Benzene	3.658	78	85986	1.935	ppbv		98
38) Trichloroethene	4.551	130	292517	13.243	ppbv		98
52) Tetrachloroethene	8.228	164	223431	12.992	ppbv		96
53) Toluene	6.936	91	67271	1.279	ppbv		100
58) Ethyl Benzene	9.360	91	7912	0.114	ppbv		94
59) m/p-Xylene	9.532	91	20709	0.378	ppbv	#	100
60) o-Xylene	9.963	91	16797	0.307	ppbv		93
73) 1,3,5-Trimethylbenzene	11.205	105	6786	0.122	ppbv	#	84
74) 1,2,4-Trimethylbenzene	11.536	105	11191	0.182	ppbv	#	65

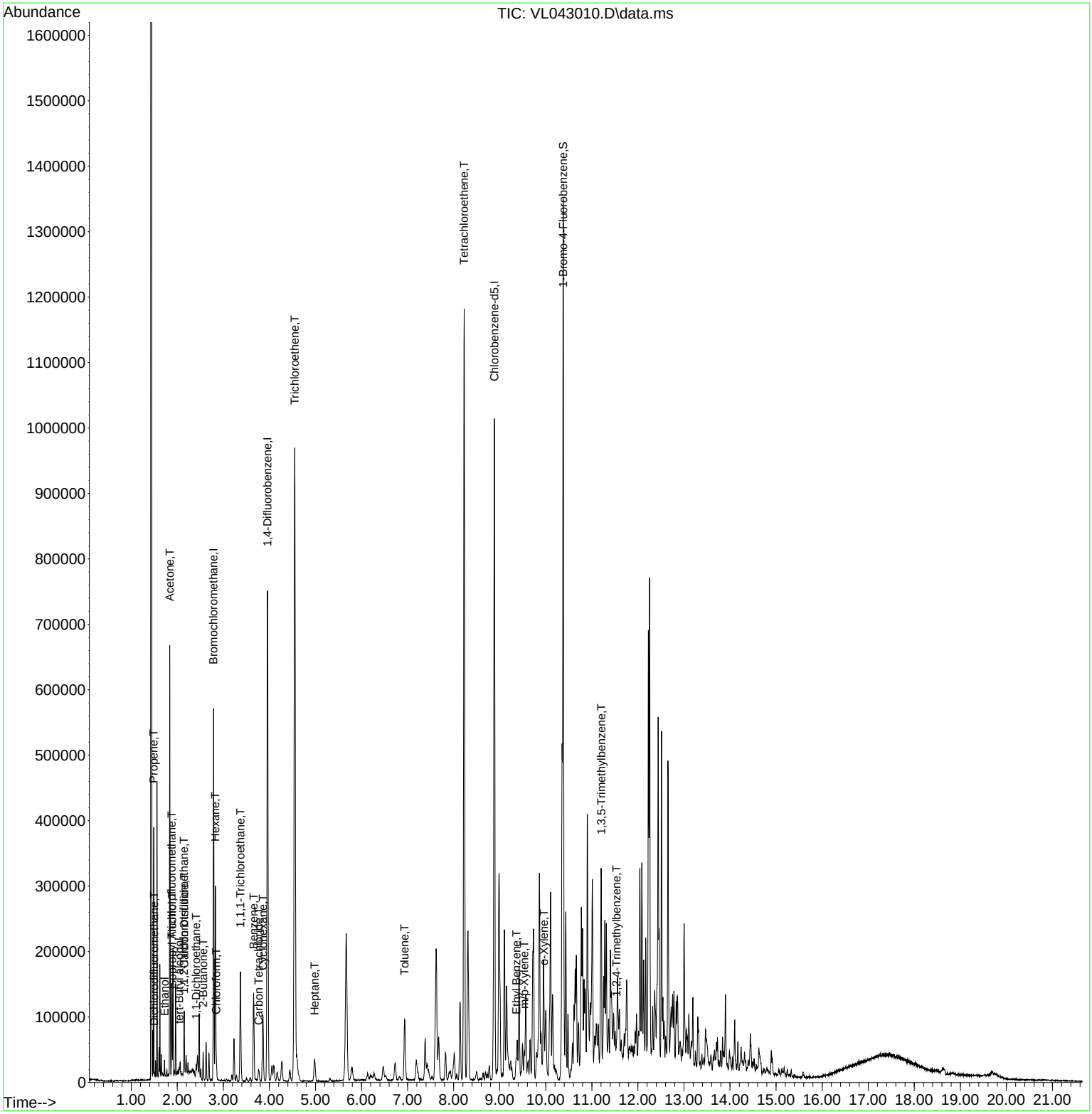
(#) = qualifier out of range (m) = manual integration (+) = signals summed

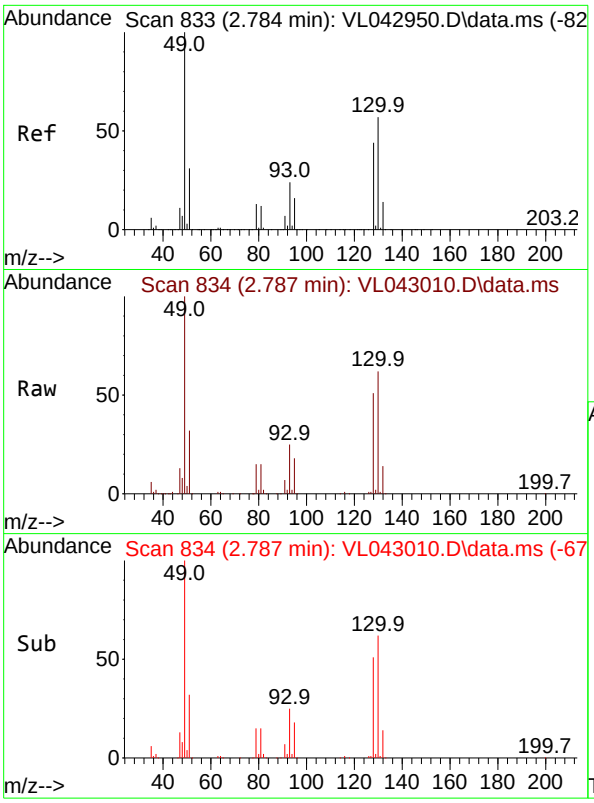
Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043010.D
Acq On : 24 Sep 2025 15:39
Operator : SY/MD
Sample : Q3154-01 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Sep 25 01:57:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



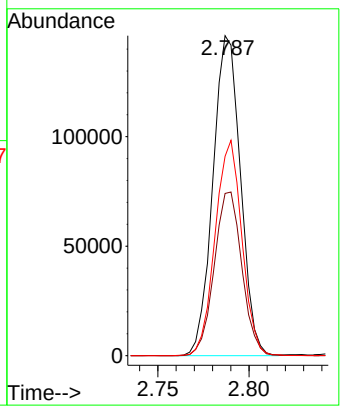


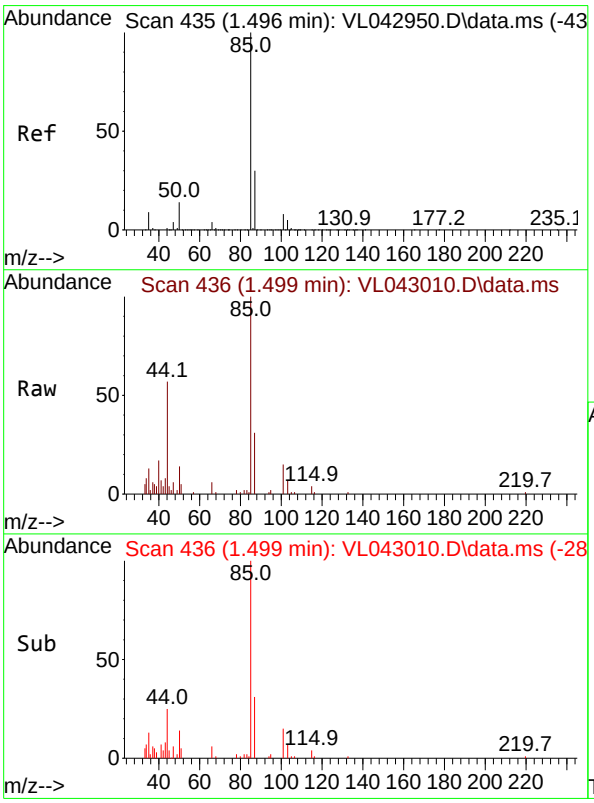
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 153782

Ion	Ratio	Lower	Upper
49	100		
128	51.2	22.9	68.8
130	65.3	29.1	87.3

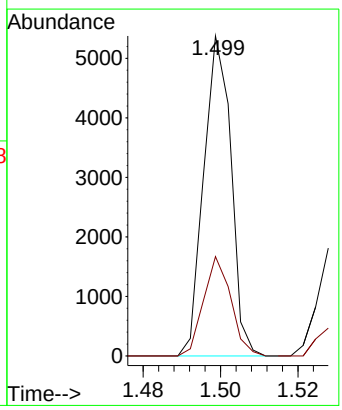


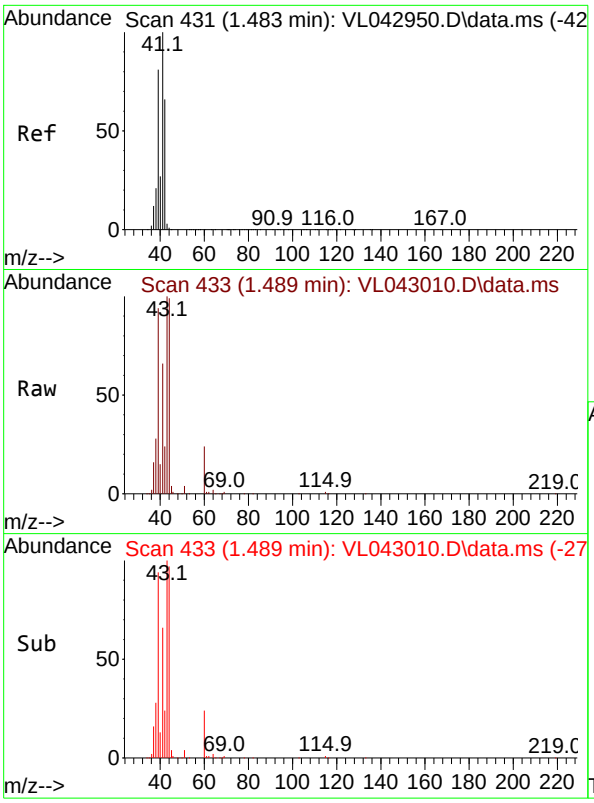


#2
Dichlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 85 Resp: 2629

Ion	Ratio	Lower	Upper
85	100		
87	31.0	24.3	36.5



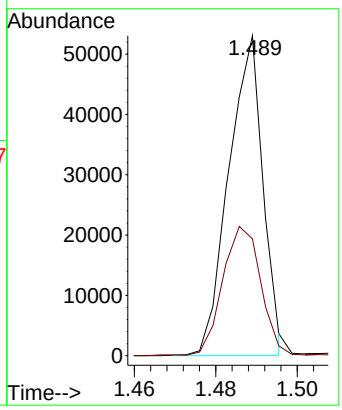


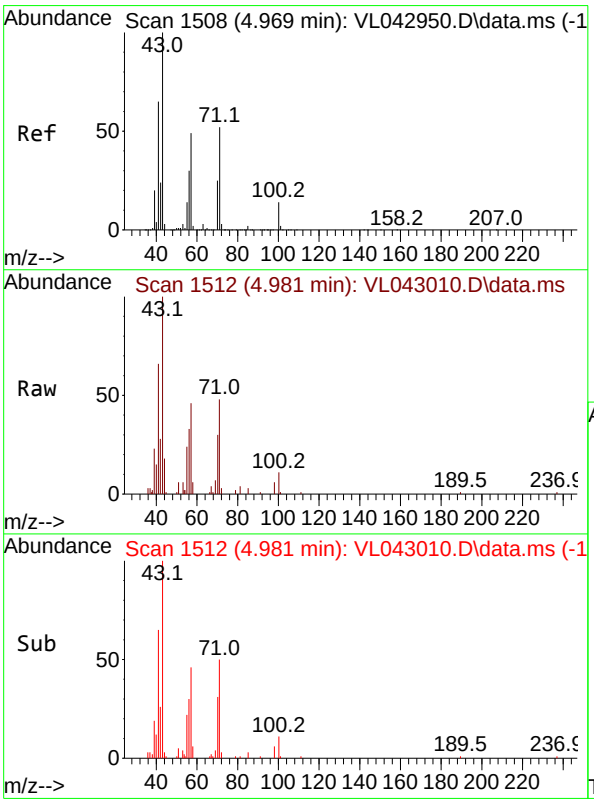
#9
Propene
Concen: 2.759 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 41 Resp: 30943

Ion	Ratio	Lower	Upper
41	100		
42	96.7	57.4	86.2#

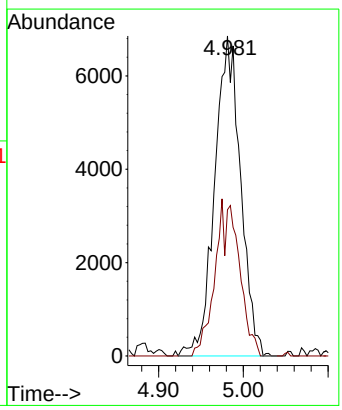


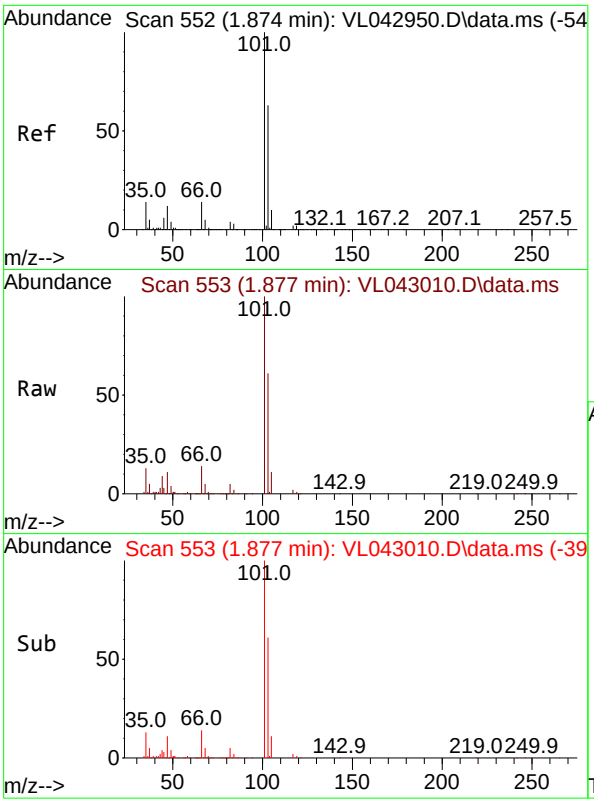


#10
Heptane
Concen: 0.486 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.013 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 43 Resp: 14555

Ion	Ratio	Lower	Upper
43	100		
57	45.9	38.6	57.8



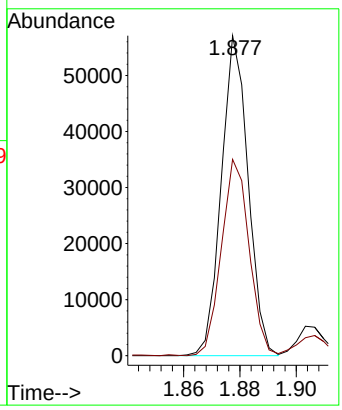


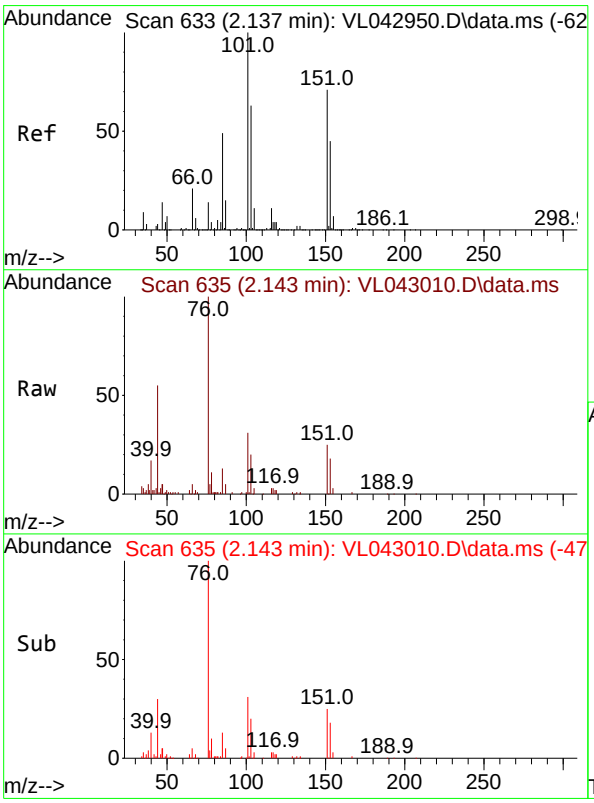
#11
Trichlorofluoromethane
Concen: 1.888 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:101 Resp: 37652

Ion	Ratio	Lower	Upper
101	100		
103	61.2	50.1	75.1

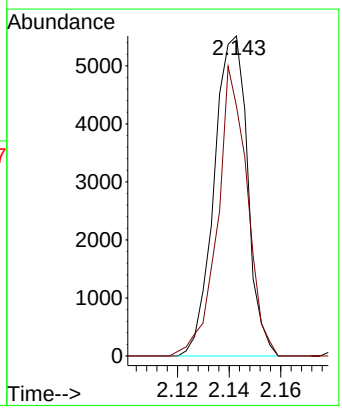


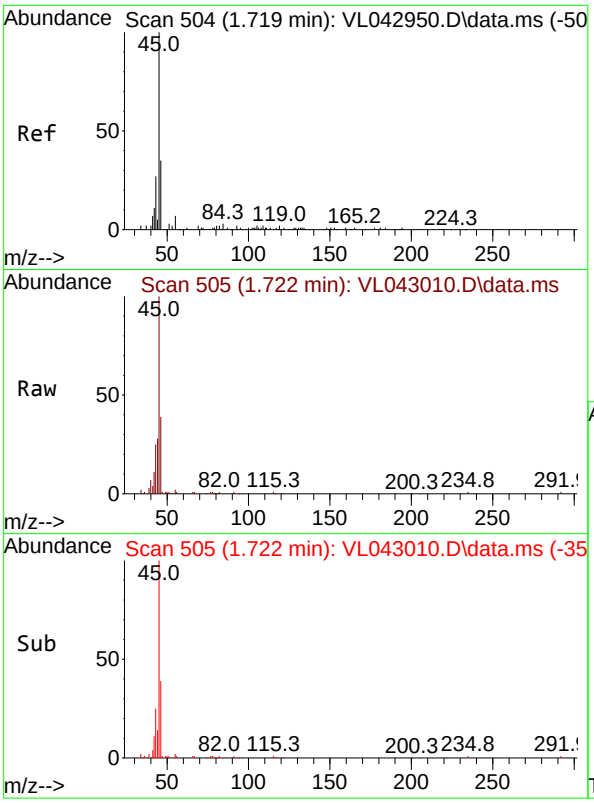


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.307 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion:101 Resp: 4960

Ion	Ratio	Lower	Upper
101	100		
151	80.2	55.7	83.5



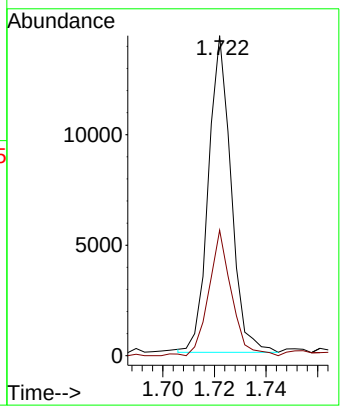


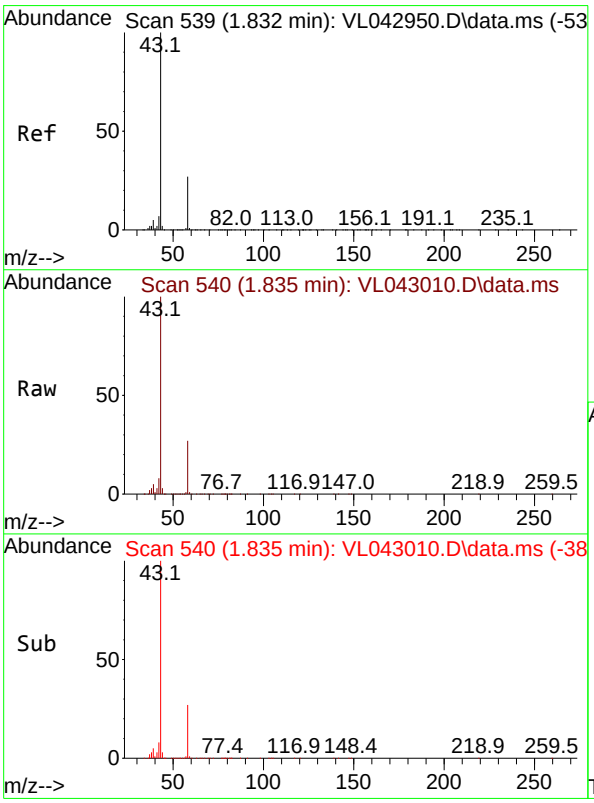
#13
Ethanol
Concen: 8.032 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 8738

Ion	Ratio	Lower	Upper
45	100		
46	39.6	16.2	64.6

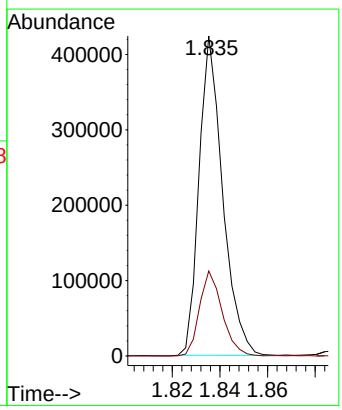


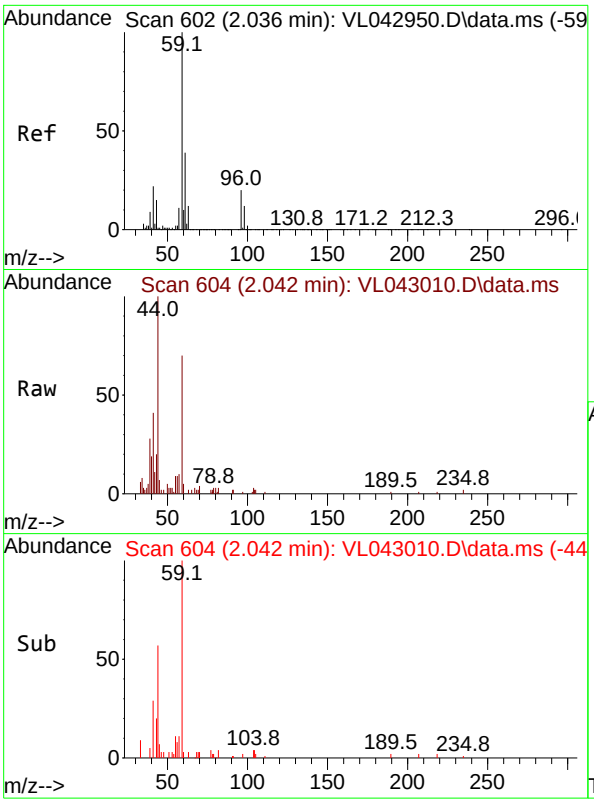


#15
Acetone
Concen: 14.556 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 43 Resp: 291560

Ion	Ratio	Lower	Upper
43	100		
58	25.6	22.3	33.5



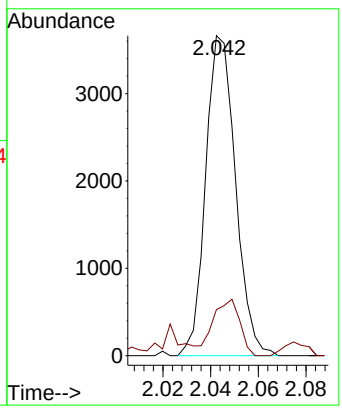


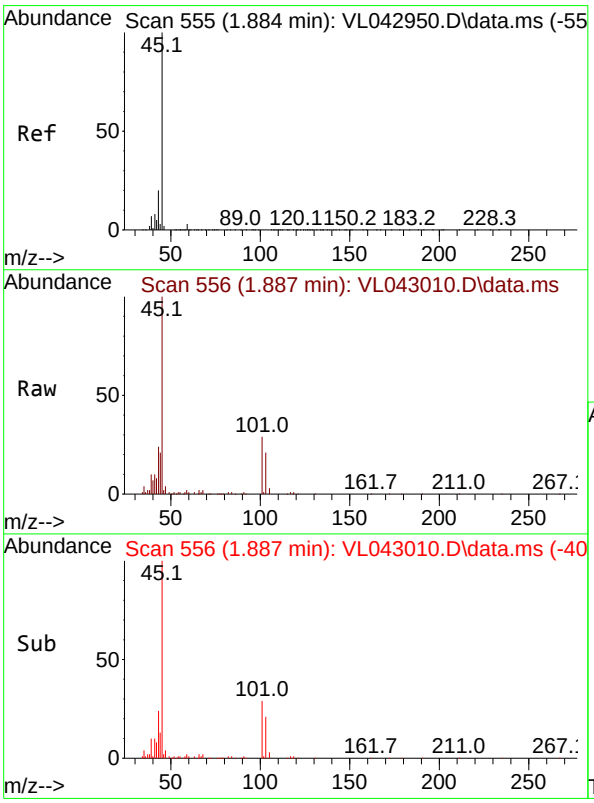
#17
tert-Butyl alcohol
Concen: 0.145 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 59 Resp: 3191

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#

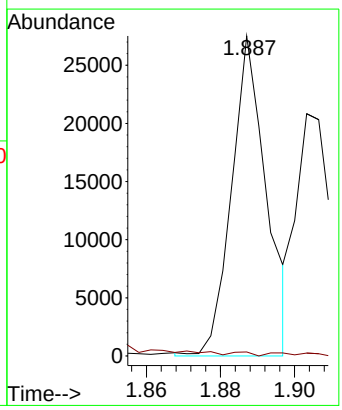


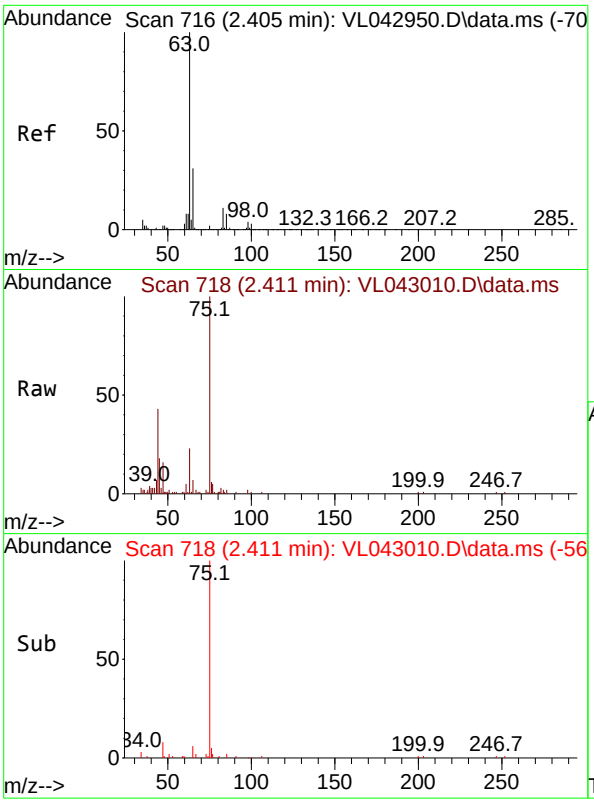


#19
Isopropyl Alcohol
Concen: 1.490 ppbv m
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 45 Resp: 17944

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.0	46.6#



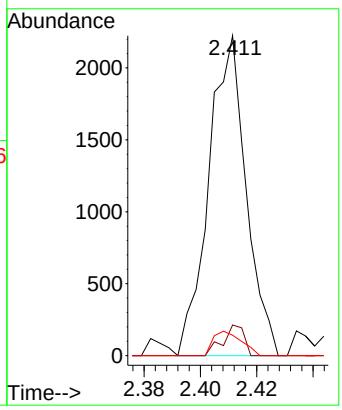


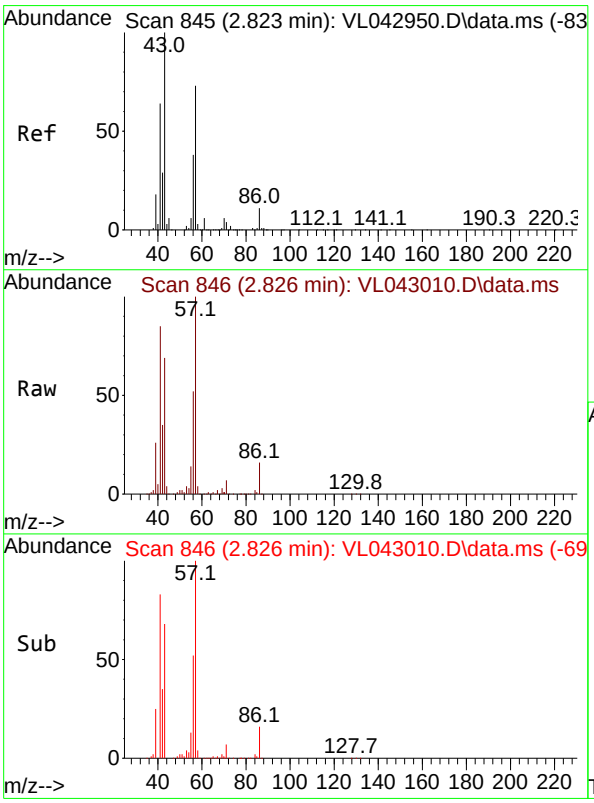
#24
1,1-Dichloroethane
Concen: 0.123 ppbv
RT: 2.411 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 63 Resp: 2049

Ion	Ratio	Lower	Upper
63	100		
98	9.6	2.2	6.6#
100	6.4	1.4	4.0#

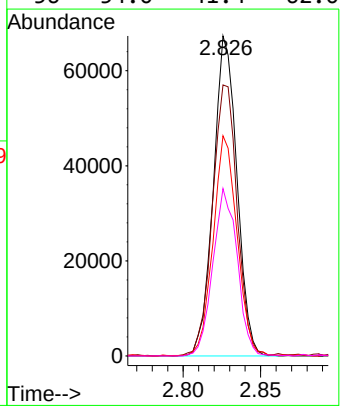


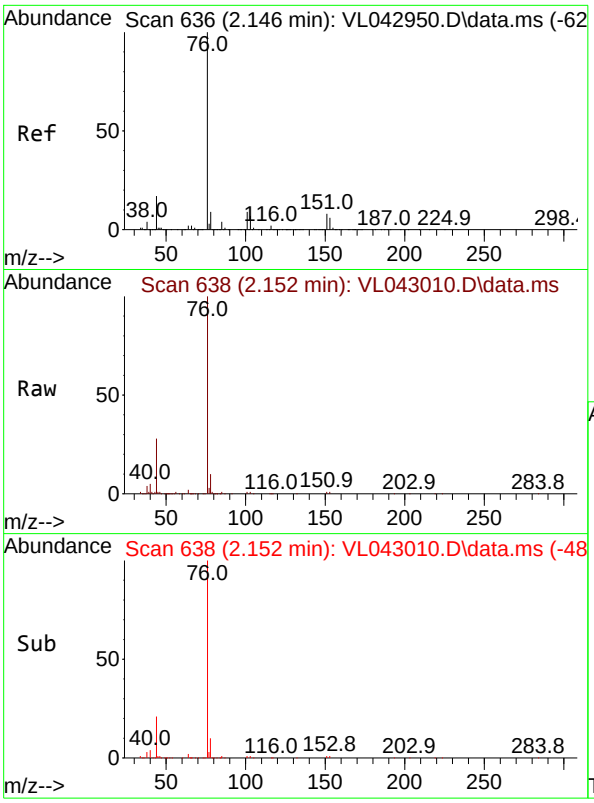


#26
Hexane
Concen: 3.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 57 Resp: 71281

Ion	Ratio	Lower	Upper
57	100		
41	89.5	71.7	107.5
43	70.4	180.8	271.2#
56	54.0	41.4	62.0



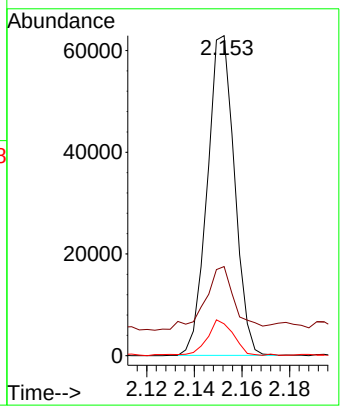


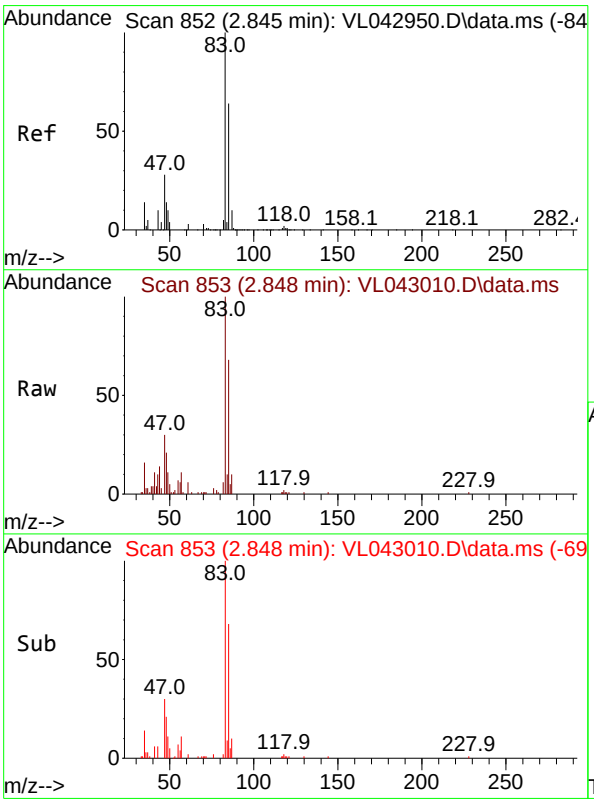
#27
Carbon Disulfide
Concen: 2.410 ppbv
RT: 2.152 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 76 Resp: 49869

Ion	Ratio	Lower	Upper
76	100		
44	29.4	15.6	23.4#
78	12.2	8.9	13.3

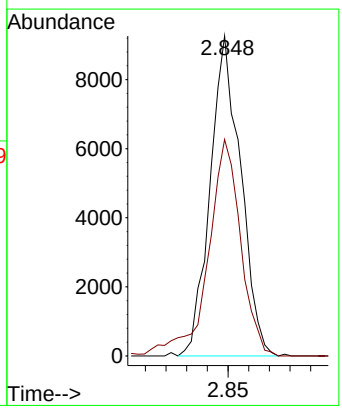


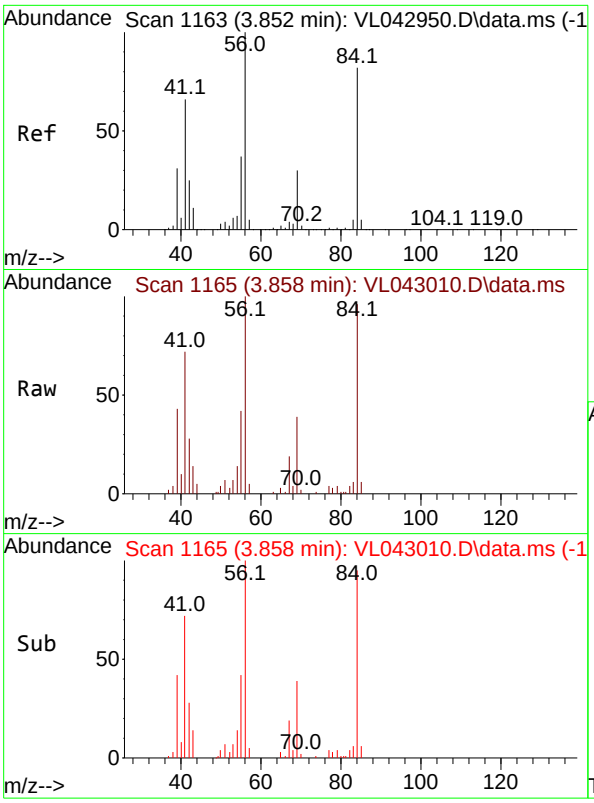


#29
Chloroform
Concen: 0.315 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 83 Resp: 9515

Ion	Ratio	Lower	Upper
83	100		
85	67.7	51.2	76.8



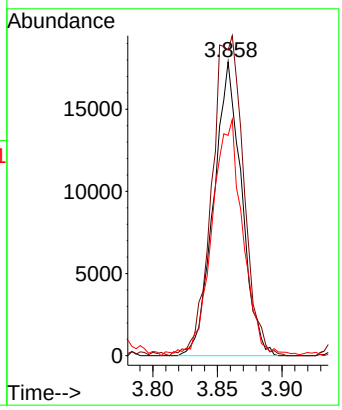


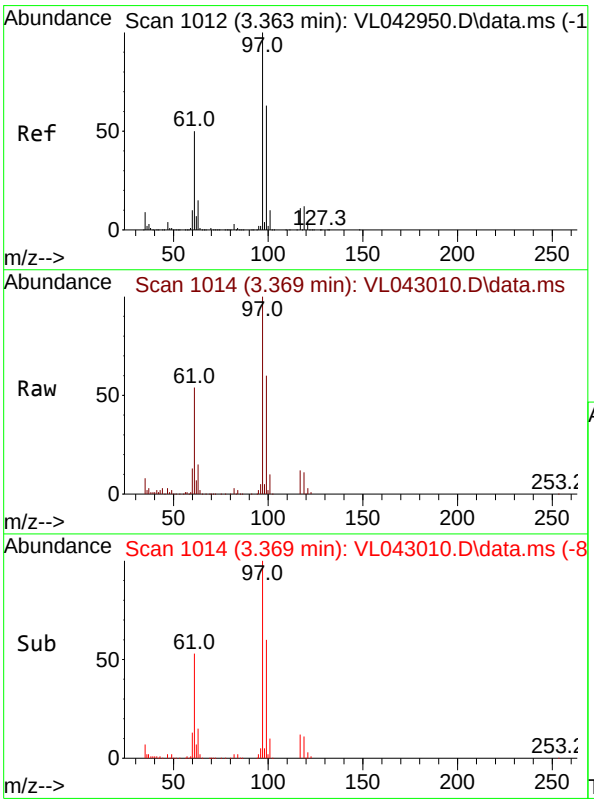
#30
Cyclohexane
Concen: 1.392 ppbv
RT: 3.858 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 26849

Ion	Ratio	Lower	Upper
84	100		
56	123.8	102.2	153.4
41	87.2	65.6	98.4

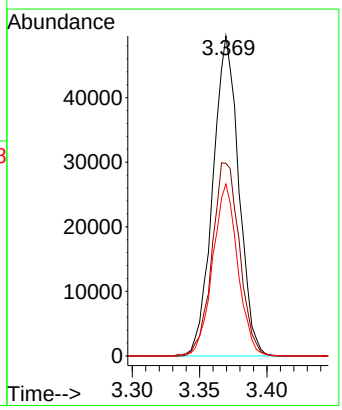


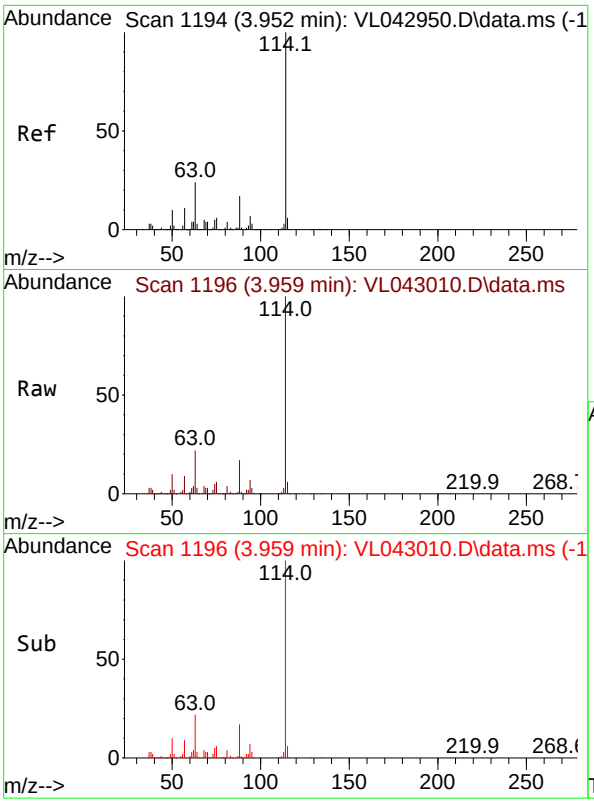


#32
1,1,1-Trichloroethane
Concen: 2.033 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 97 Resp: 66252

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.1	76.7
61	52.2	39.8	59.6



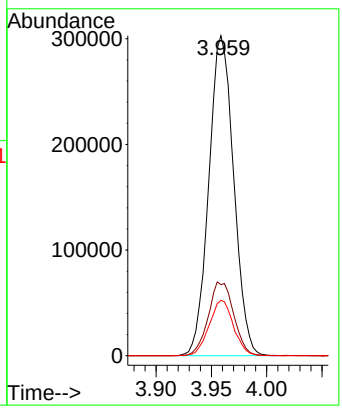


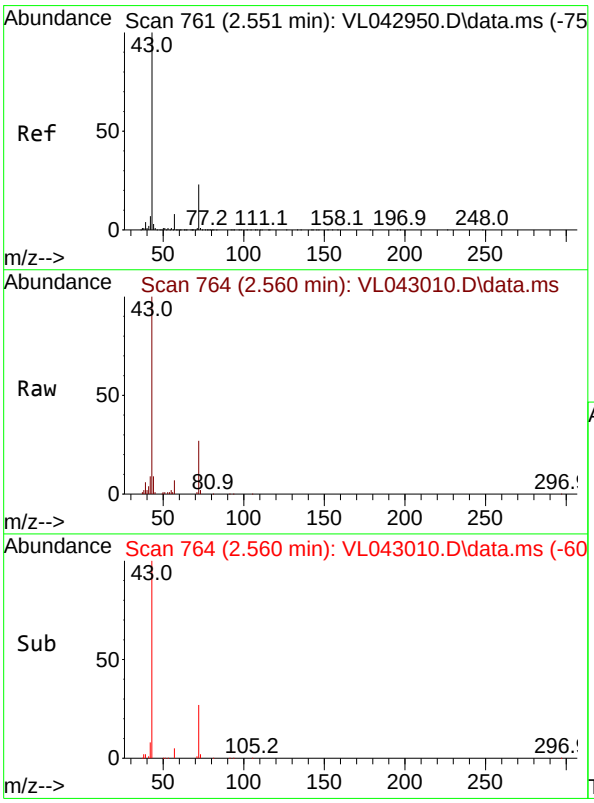
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:114 Resp: 473304

Ion	Ratio	Lower	Upper
114	100		
63	23.6	19.4	29.2
88	16.9	14.2	21.2

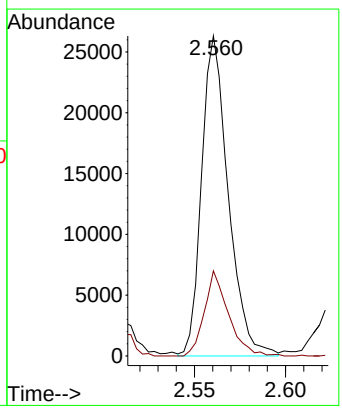


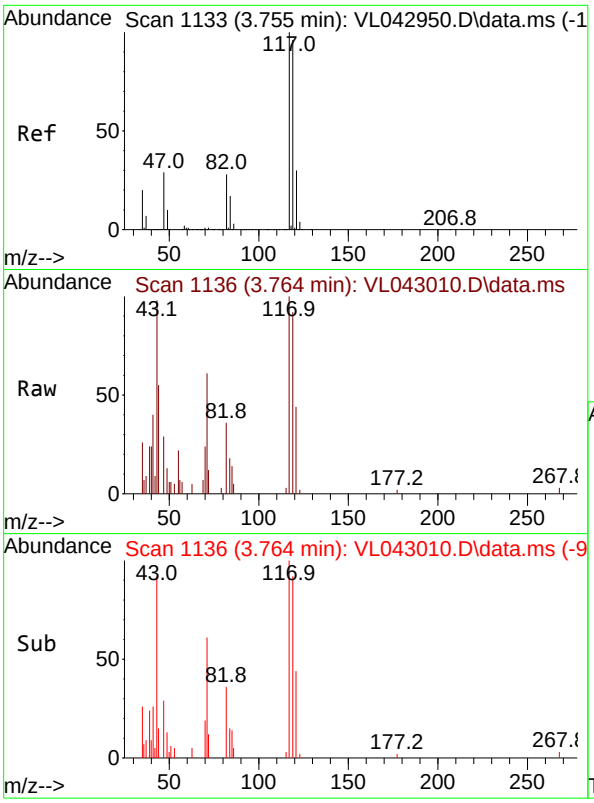


#34
2-Butanone
Concen: 0.809 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 43 Resp: 26819

Ion	Ratio	Lower	Upper
43	100		
72	24.1	17.7	26.5



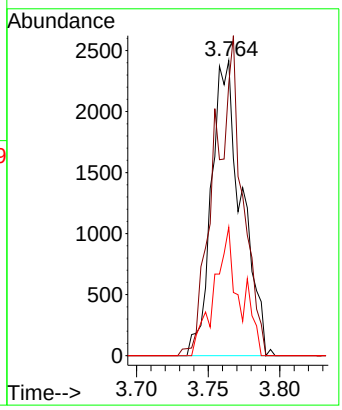


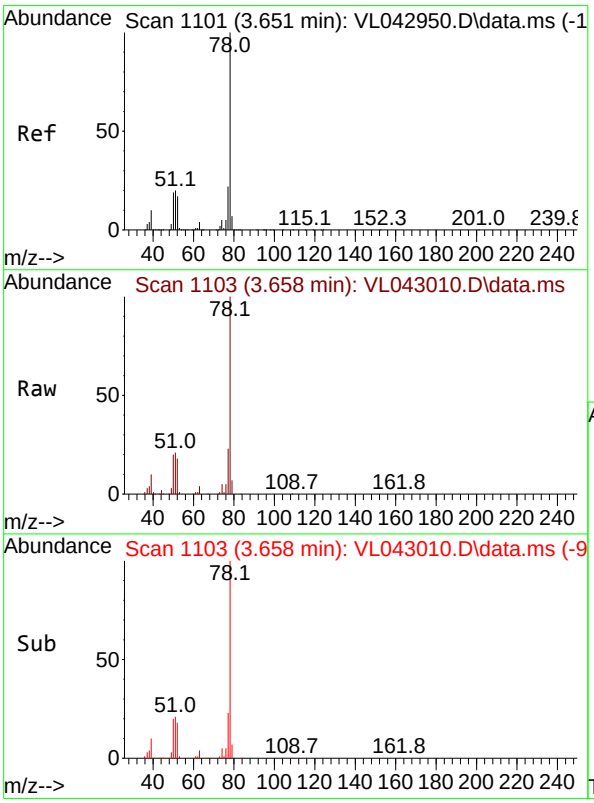
#35
Carbon Tetrachloride
Concen: 0.115 ppbv m
RT: 3.764 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:117 Resp: 3548

Ion	Ratio	Lower	Upper
117	100		
119	92.1	76.9	115.3
121	43.5	23.7	35.5#

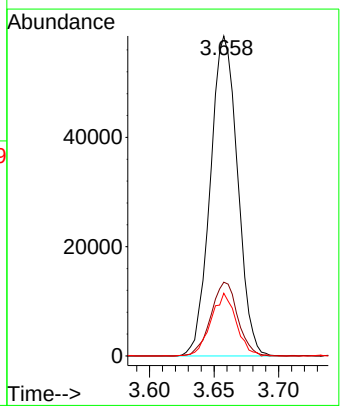


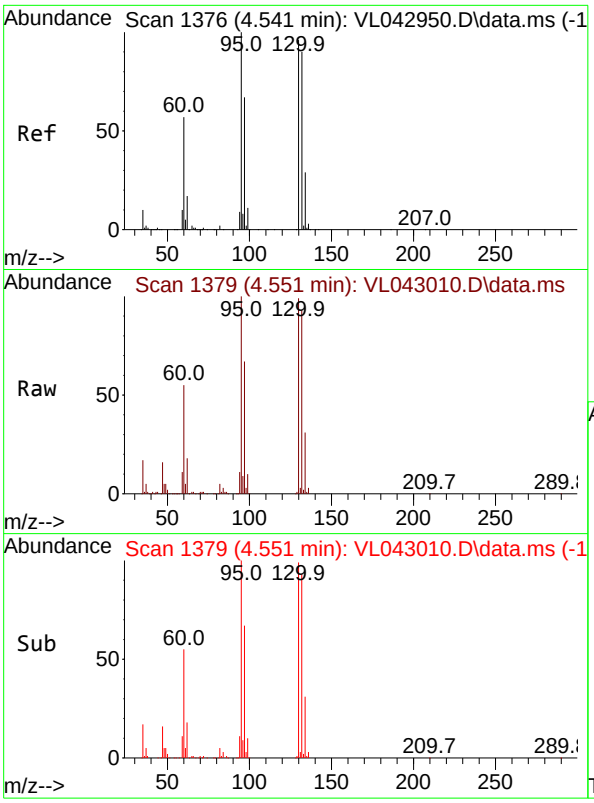


#36
Benzene
Concen: 1.935 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 78 Resp: 85986

Ion	Ratio	Lower	Upper
78	100		
77	22.9	17.8	26.6
50	19.6	15.0	22.4



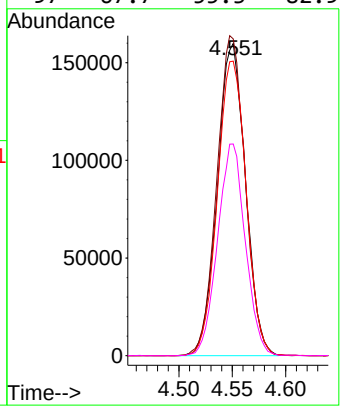


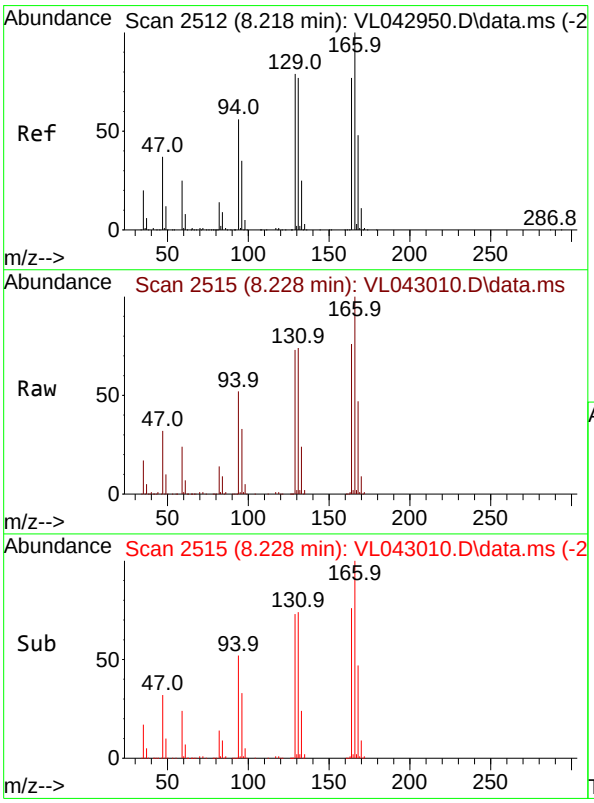
#38
Trichloroethene
Concen: 13.243 ppbv
RT: 4.551 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:130 Resp: 292517

Ion	Ratio	Lower	Upper
130	100		
95	101.5	83.0	124.4
132	94.4	74.6	112.0
97	67.7	55.3	82.9

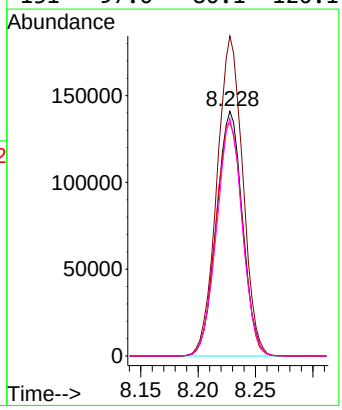


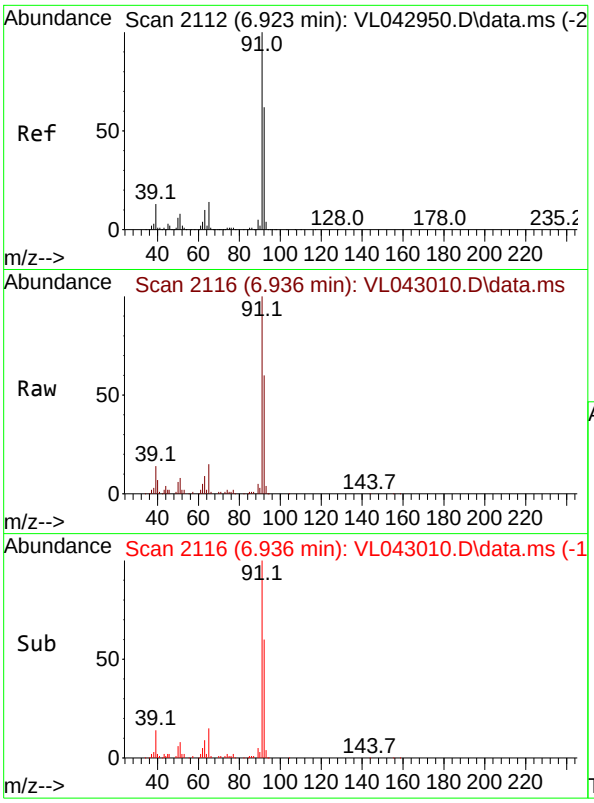


#52
Tetrachloroethene
Concen: 12.992 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion:164 Resp: 223431

Ion	Ratio	Lower	Upper
164	100		
166	130.8	103.5	155.3
129	95.2	82.2	123.4
131	97.0	80.1	120.1



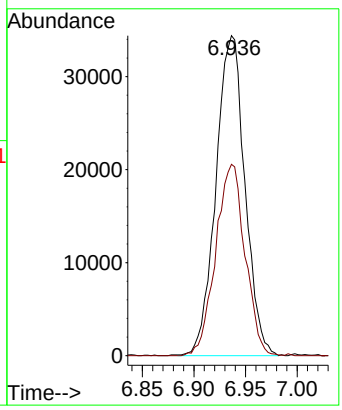


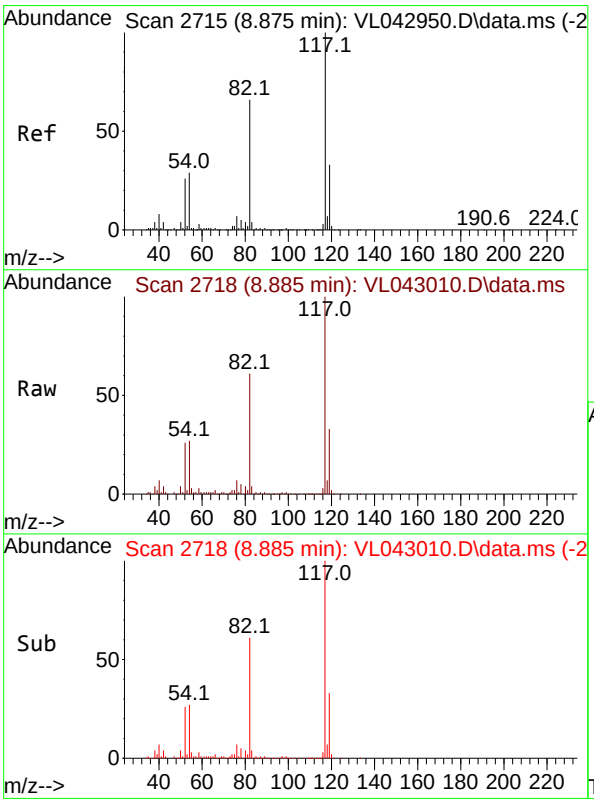
#53
Toluene
Concen: 1.279 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 67271

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2

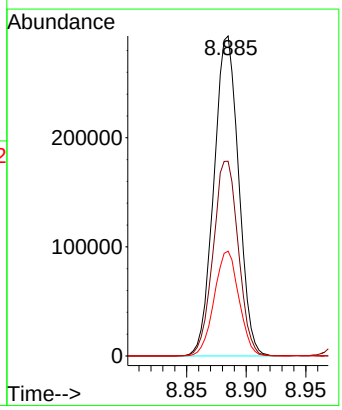


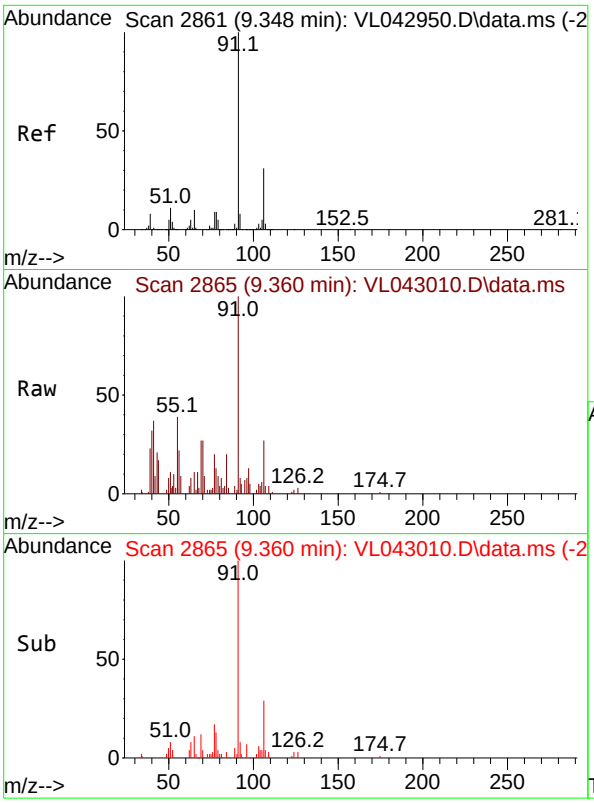


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion:117 Resp: 423014

Ion	Ratio	Lower	Upper
117	100		
82	62.0	52.8	79.2
119	32.7	26.5	39.7



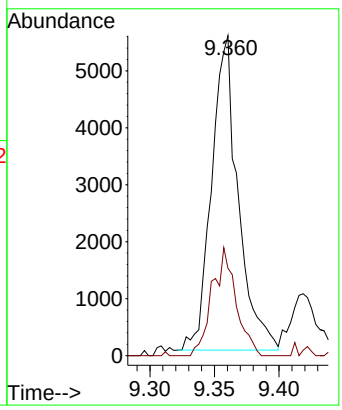


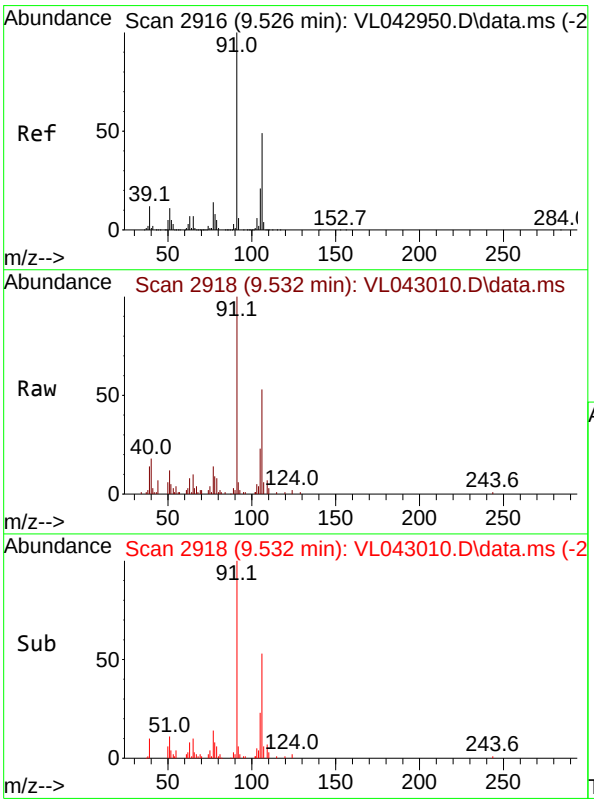
#58
Ethyl Benzene
Concen: 0.114 ppbv
RT: 9.360 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 7912

Ion	Ratio	Lower	Upper
91	100		
106	27.8	24.6	37.0

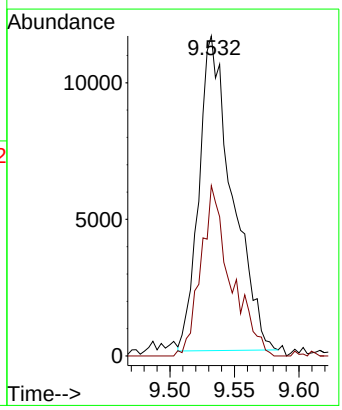


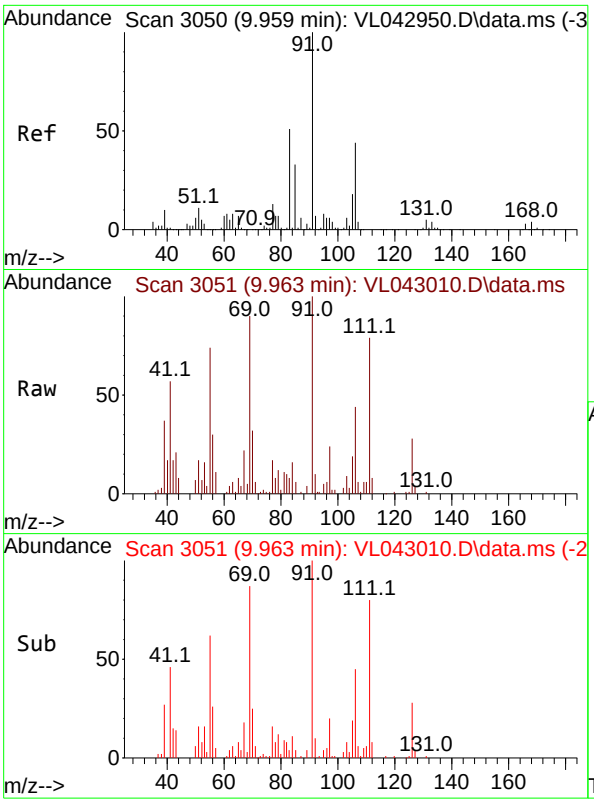


#59
m/p-Xylene
Concen: 0.378 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 91 Resp: 20709

Ion	Ratio	Lower	Upper
91	100		
106	48.6	0.0	0.0#



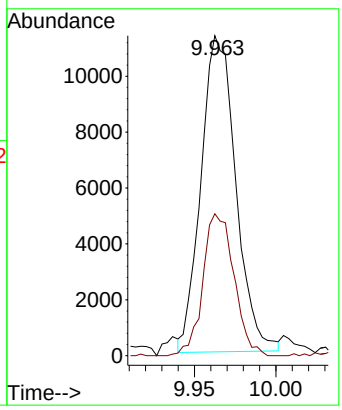


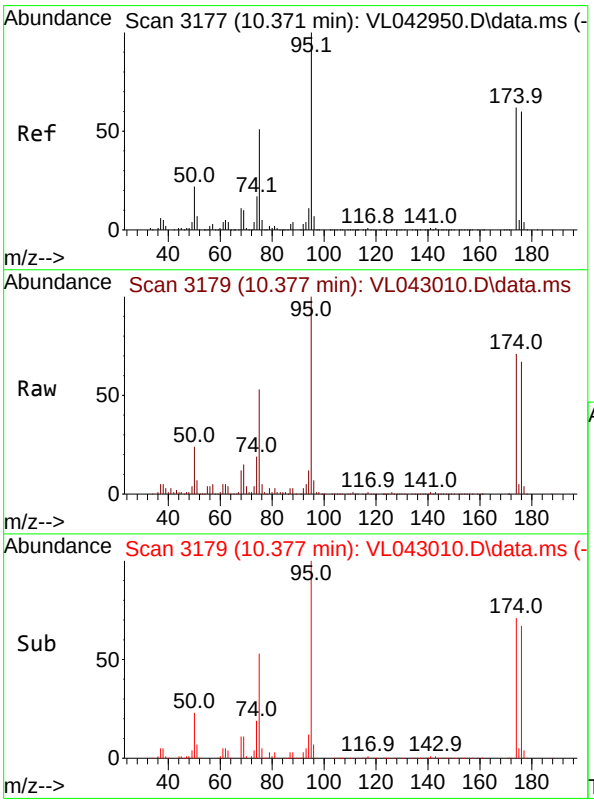
#60
o-Xylene
Concen: 0.307 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 16797

Ion	Ratio	Lower	Upper
91	100		
106	40.2	22.4	67.0

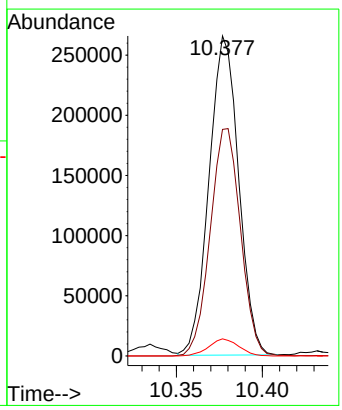


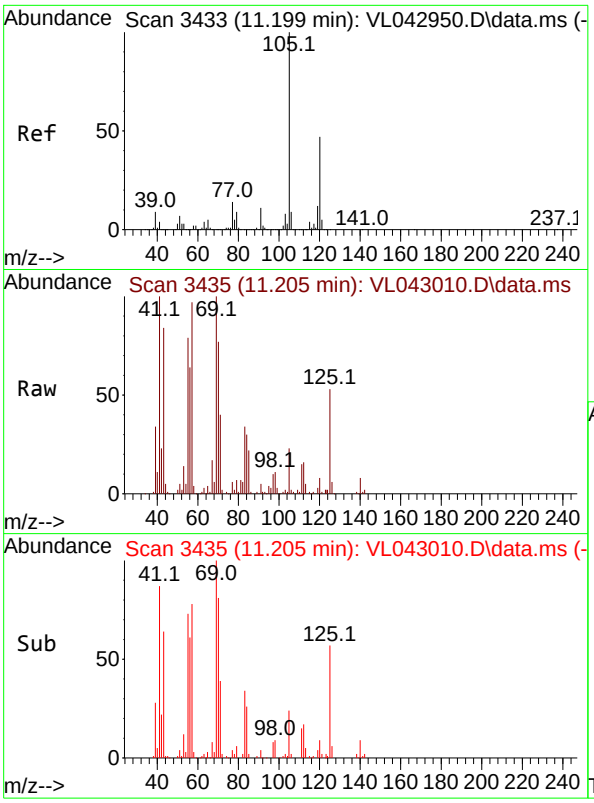


#68
1-Bromo-4-Fluorobenzene
Concen: 10.055 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion: 95 Resp: 317512

Ion	Ratio	Lower	Upper
95	100		
174	73.1	51.4	77.2
175	5.4	4.0	6.0



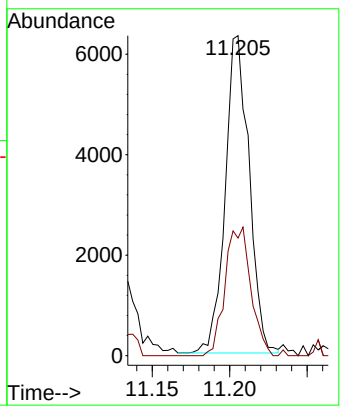


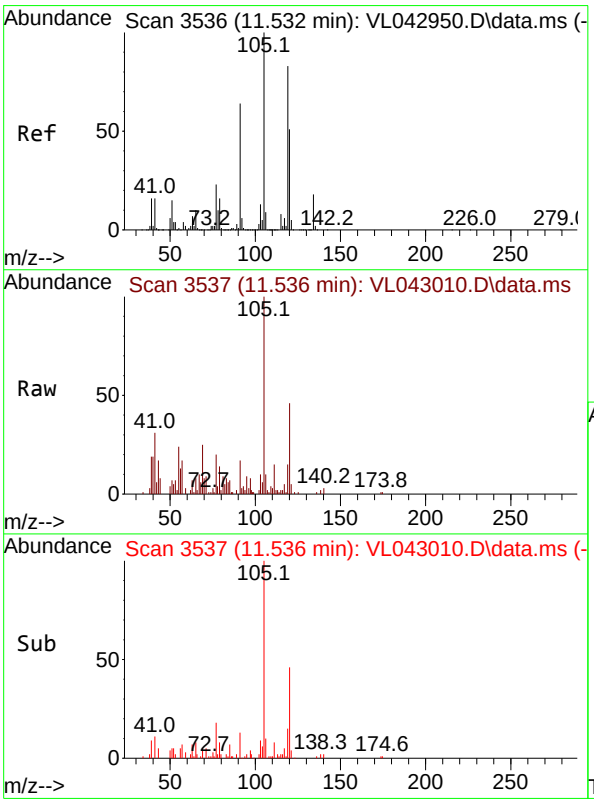
#73
1,3,5-Trimethylbenzene
Concen: 0.122 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:105 Resp: 6786

Ion	Ratio	Lower	Upper
105	100		
120	37.1	38.0	57.0#

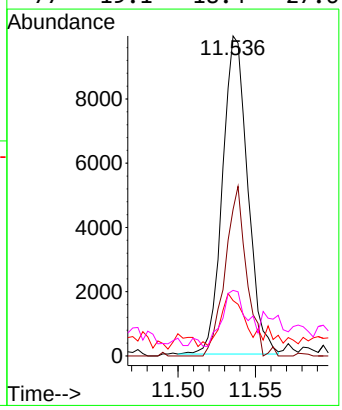




#74
1,2,4-Trimethylbenzene
Concen: 0.182 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL043010.D
Acq: 24 Sep 2025 15:39

Tgt Ion:105 Resp: 11191

Ion	Ratio	Lower	Upper
105	100		
120	46.1	40.9	61.3
91	10.9	51.2	76.8#
77	19.1	18.4	27.6



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	09/19/25
Project:	179 Vermont St Brooklyn NY	Date Received:	09/19/25
Client Sample ID:	SV2	SDG No.:	Q3154
Lab Sample ID:	Q3154-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043007.D	2		09/24/25 13:31	VL092425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	0.050	0.13	U	0.13	0.15	
142-82-5	Heptane	2.20	9.02		1.39	4.10	
75-34-3	1,1-Dichloroethane	0.26	1.05	U	1.05	4.05	
110-82-7	Cyclohexane	9.50	32.7		1.51	3.44	
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	0.79	3.96	
71-55-6	1,1,1-Trichloroethane	0.52	2.84		0.16	0.33	
71-43-2	Benzene	2.50	7.99		0.51	3.19	
79-01-6	Trichloroethene	1.60	8.60		0.27	0.32	
108-88-3	Toluene	3.70	13.9		1.21	3.77	
127-18-4	Tetrachloroethene	1.60	10.8		0.20	0.41	
100-41-4	Ethyl Benzene	0.68	2.95	J	1.65	4.34	
95-47-6	o-Xylene	1.30	5.65		1.82	4.34	
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	1.77	4.92	
95-63-6	1,2,4-Trimethylbenzene	0.80	3.93	J	1.77	4.92	
91-20-3	Naphthalene	0.40	2.10		0.16	1.05	
110-54-3	Hexane	7.20	25.4		1.13	3.52	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	154000		2.79			
540-36-3	1,4-Difluorobenzene	468000		3.962			
3114-55-4	Chlorobenzene-d5	423000		8.885			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043007.D
Acq On : 24 Sep 2025 13:31
Operator : SY/MD
Sample : Q3154-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Sep 25 01:55:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

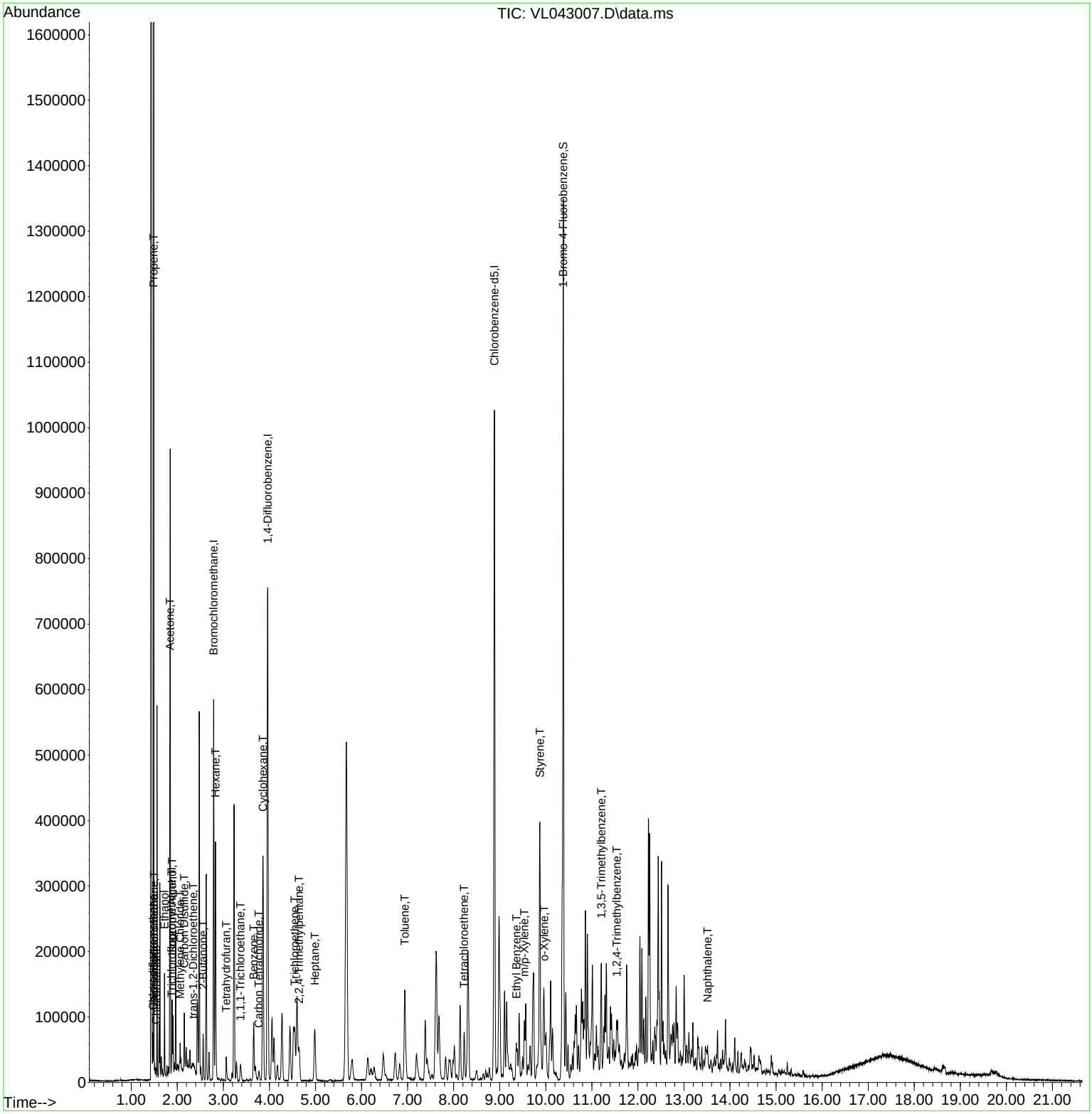
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	153511	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	468363	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	423322	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	329247	10.419	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	5397	0.261	ppbv		100
3) Chlorodifluoromethane	1.476	51	4525m	0.176	ppbv		
4) Chloromethane	1.534	50	2229	0.239	ppbv	#	69
9) Propene	1.489	41	284054m	25.373	ppbv		
10) Heptane	4.988	43	32568	1.090	ppbv		99
11) Trichlorofluoromethane	1.881	101	7073	0.355	ppbv		91
13) Ethanol	1.722	45	50887	46.856	ppbv		96
15) Acetone	1.839	43	206043m	10.305	ppbv		
19) Isopropyl Alcohol	1.887	45	43645	3.631	ppbv	#	1
20) Methylene Chloride	2.062	84	5362	0.246	ppbv		94
22) trans-1,2-Dichloroethene	2.347	96	1034	0.122	ppbv	#	61
26) Hexane	2.829	57	82930	3.600	ppbv	#	42
27) Carbon Disulfide	2.152	76	43286	2.095	ppbv	#	1
30) Cyclohexane	3.861	84	91897	4.772	ppbv		96
32) 1,1,1-Trichloroethane	3.373	97	8561	0.263	ppbv		95
34) 2-Butanone	2.560	43	42998	1.310	ppbv		97
35) Carbon Tetrachloride	3.768	117	1254m	0.041	ppbv		
36) Benzene	3.661	78	53997	1.228	ppbv		99
38) Trichloroethene	4.551	130	17242	0.789	ppbv		95
41) Tetrahydrofuran	3.062	42	11968	0.634	ppbv		96
44) 2,2,4-Trimethylpentane	4.645	57	42705	0.562	ppbv	#	69
52) Tetrachloroethene	8.228	164	13311	0.782	ppbv		94
53) Toluene	6.939	91	95651	1.837	ppbv		99
58) Ethyl Benzene	9.360	91	23962	0.345	ppbv		95
59) m/p-Xylene	9.535	91	54439	0.993	ppbv	#	100
60) o-Xylene	9.966	91	35535	0.649	ppbv		100
61) Styrene	9.872	104	97357	3.758	ppbv		99
73) 1,3,5-Trimethylbenzene	11.205	105	8544	0.154	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	24496	0.399	ppbv	#	67
79) Naphthalene	13.513	128	10737	0.198	ppbv	#	94

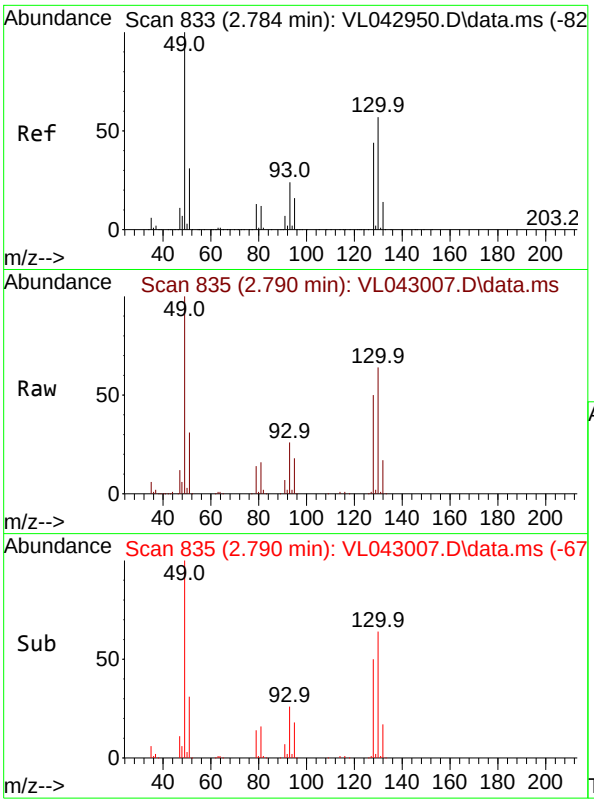
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043007.D
Acq On : 24 Sep 2025 13:31
Operator : SY/MD
Sample : Q3154-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Sep 25 01:55:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



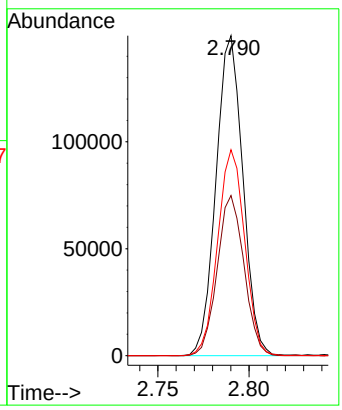


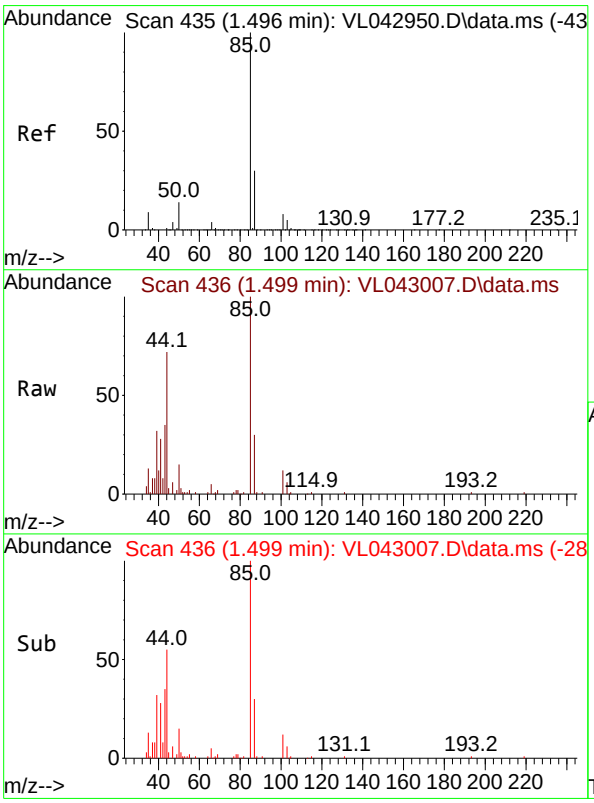
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 153511

Ion	Ratio	Lower	Upper
49	100		
128	49.8	22.9	68.8
130	64.7	29.1	87.3

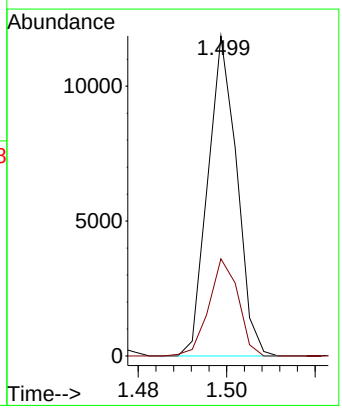


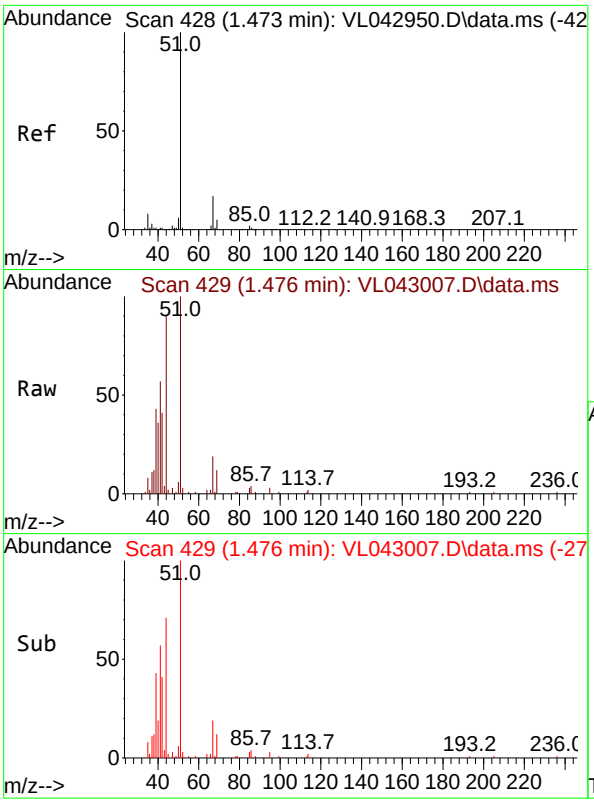


#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 85 Resp: 5397

Ion	Ratio	Lower	Upper
85	100		
87	30.3	24.3	36.5



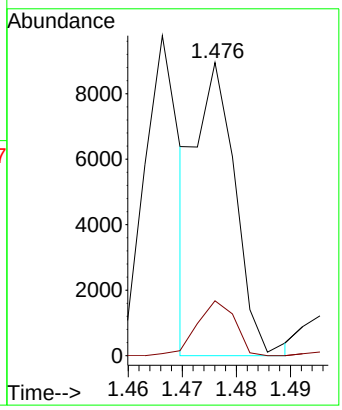


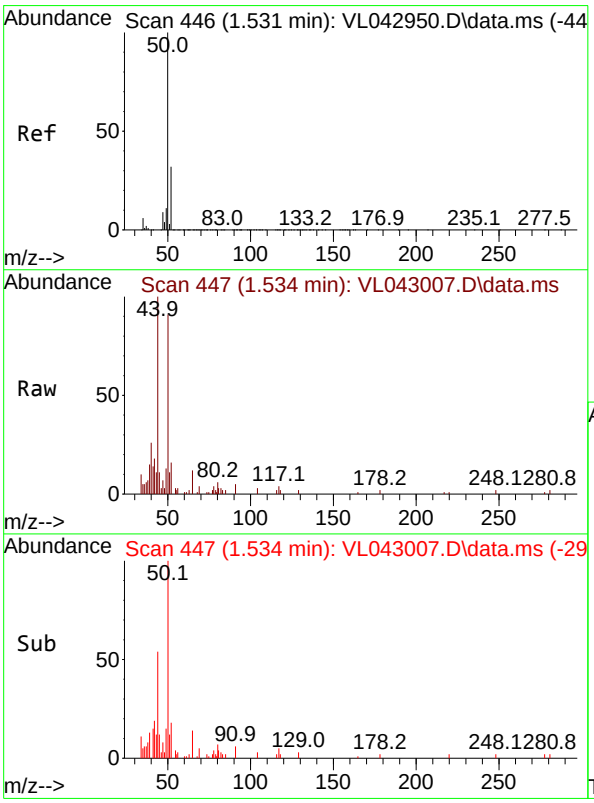
#3
Chlorodifluoromethane
Concen: 0.176 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 51 Resp: 4525

Ion	Ratio	Lower	Upper
51	100		
67	6.5	13.8	20.8#

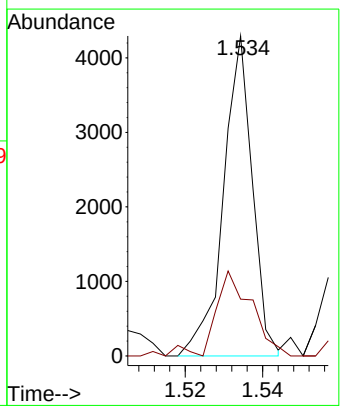


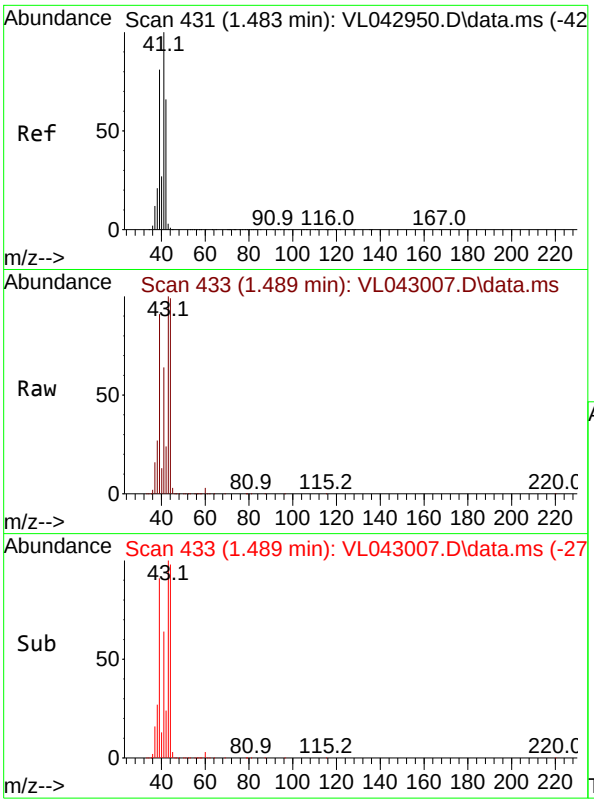


#4
Chloromethane
Concen: 0.239 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 50 Resp: 2229

Ion	Ratio	Lower	Upper
50	100		
52	14.9	25.9	38.9#



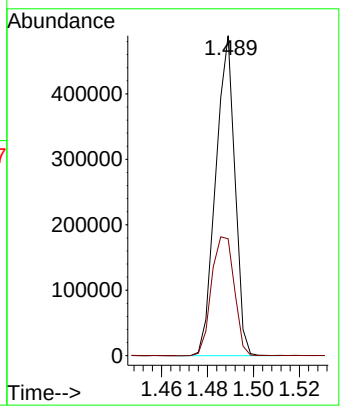


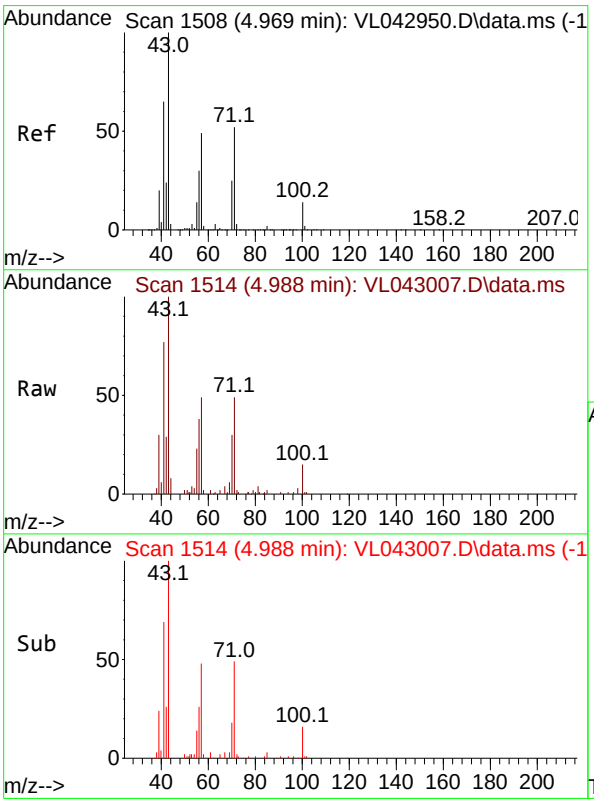
#9
Propene
Concen: 25.373 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 41 Resp: 284054

Ion	Ratio	Lower	Upper
41	100		
42	13.9	57.4	86.2#

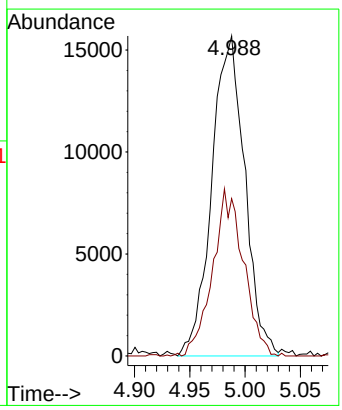


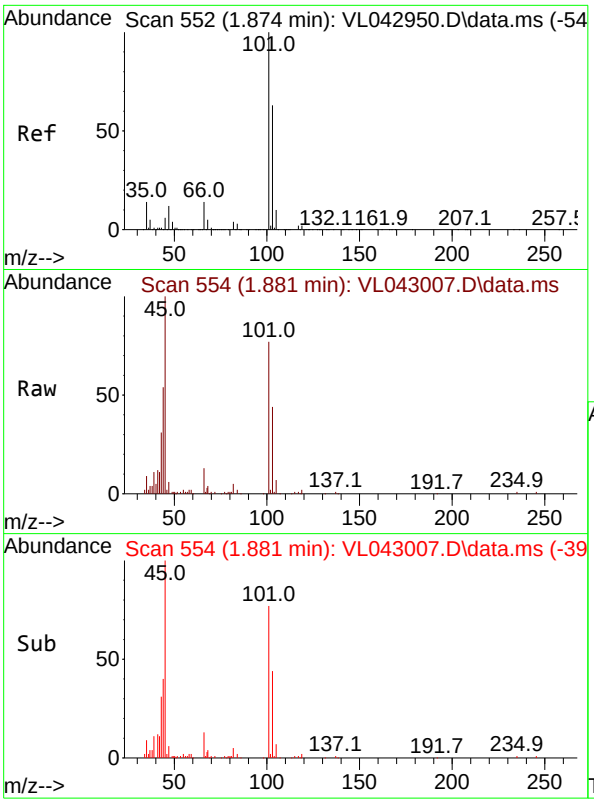


#10
Heptane
Concen: 1.090 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.019 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 43 Resp: 32568

Ion	Ratio	Lower	Upper
43	100		
57	49.0	38.6	57.8



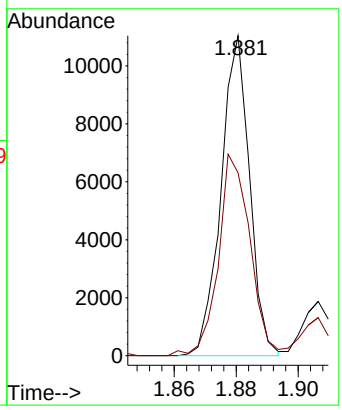


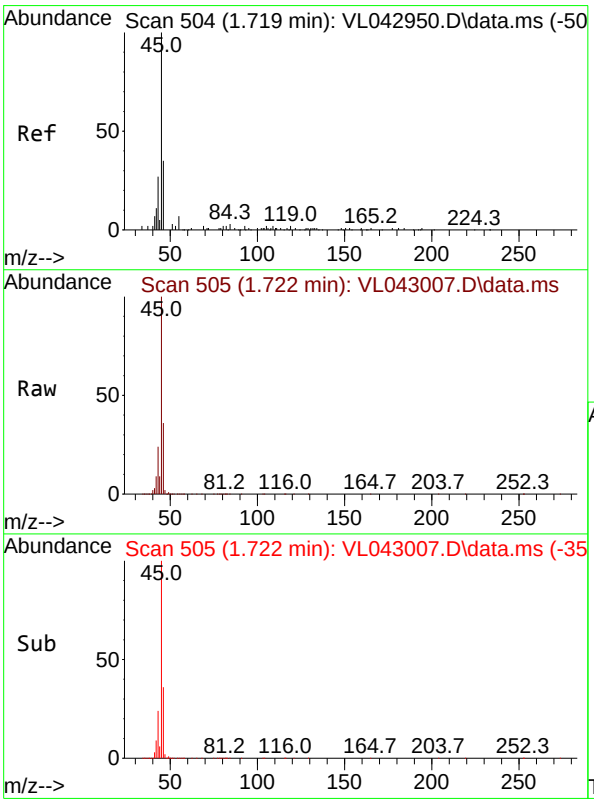
#11
Trichlorofluoromethane
Concen: 0.355 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:101 Resp: 7073

Ion	Ratio	Lower	Upper
101	100		
103	55.6	50.1	75.1

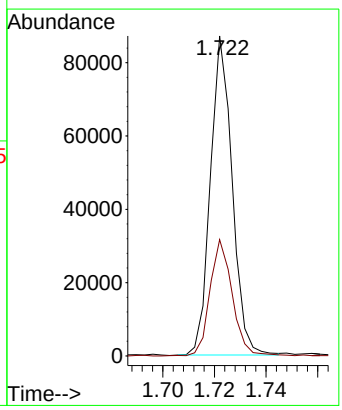


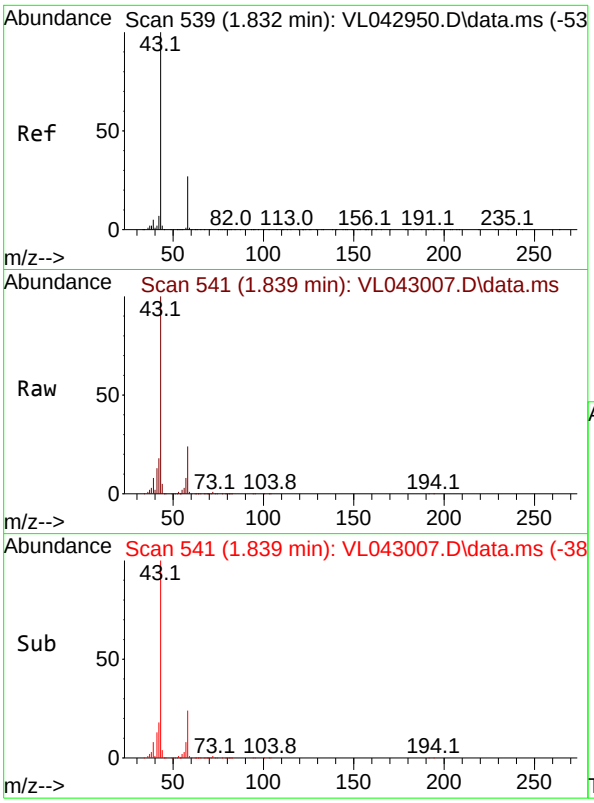


#13
Ethanol
Concen: 46.856 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 45 Resp: 50887

Ion	Ratio	Lower	Upper
45	100		
46	38.1	16.2	64.6



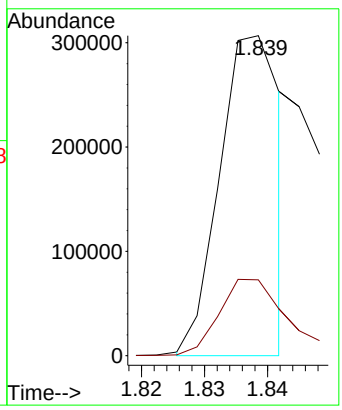


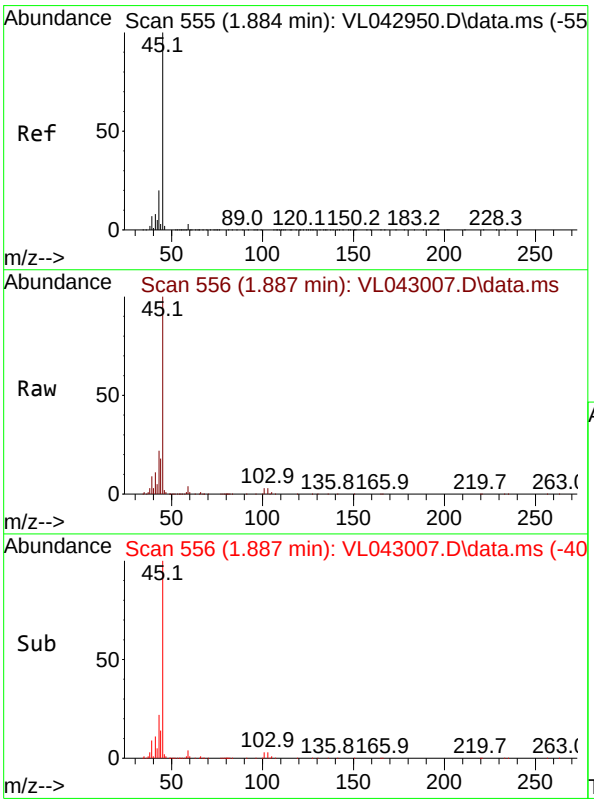
#15
Acetone
Concen: 10.305 ppbv m
RT: 1.839 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 206043

Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.3	33.5

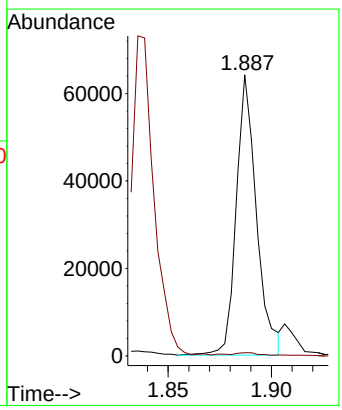


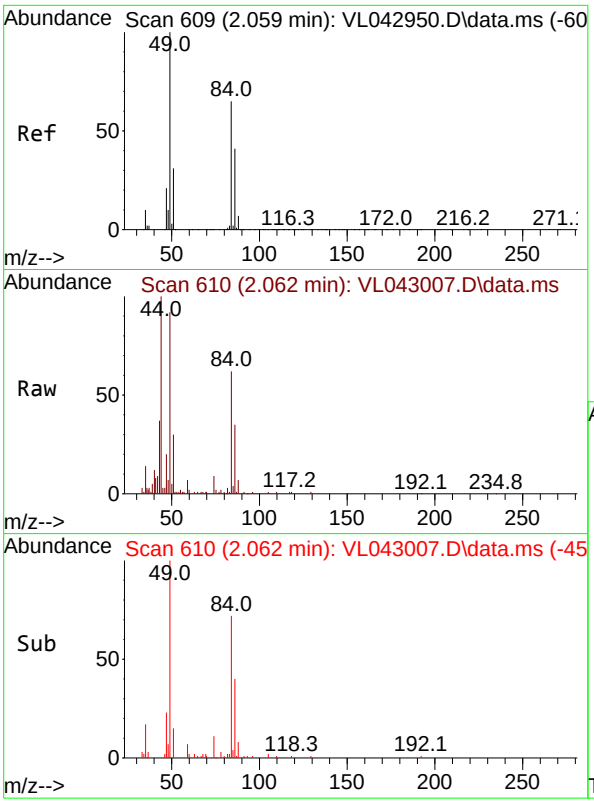


#19
Isopropyl Alcohol
Concen: 3.631 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 45 Resp: 43645

Ion	Ratio	Lower	Upper
45	100		
58	127.7	31.0	46.6#



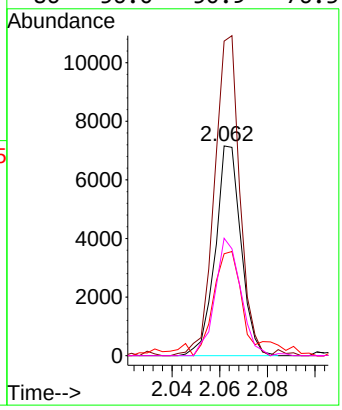


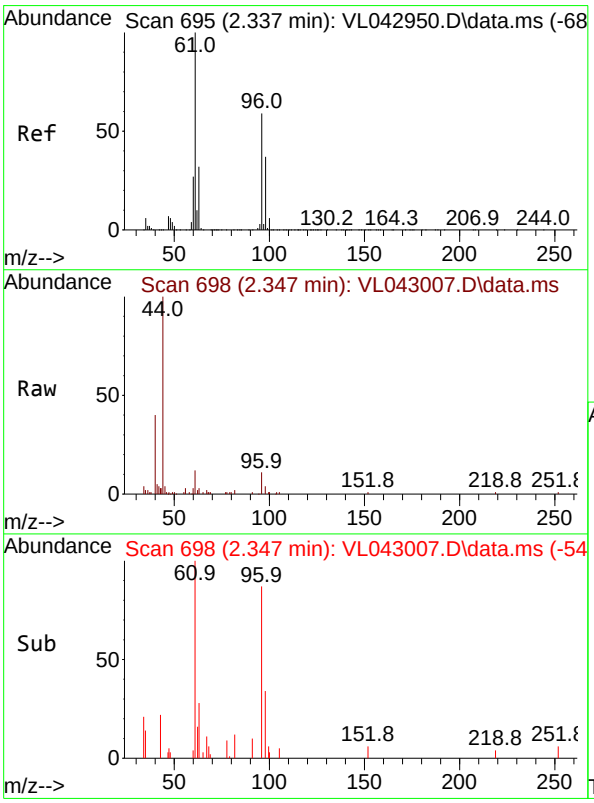
#20
Methylene Chloride
Concen: 0.246 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 84 Resp: 5362

Ion	Ratio	Lower	Upper
84	100		
49	148.9	124.1	186.1
51	45.7	39.8	59.8
86	56.0	50.9	76.3

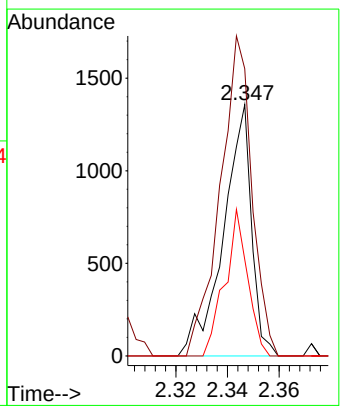


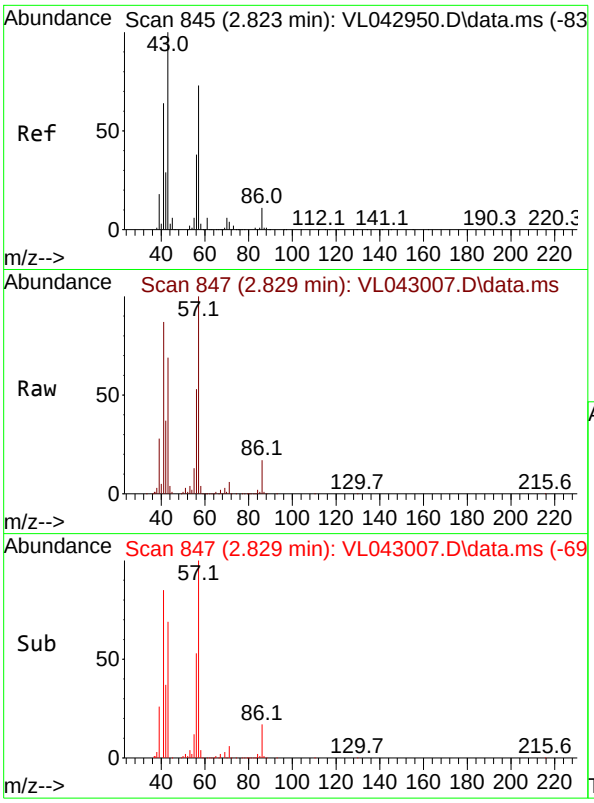


#22
trans-1,2-Dichloroethene
Concen: 0.122 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 96 Resp: 1034

Ion	Ratio	Lower	Upper
96	100		
61	114.3	136.5	204.7#
98	38.3	50.6	76.0#



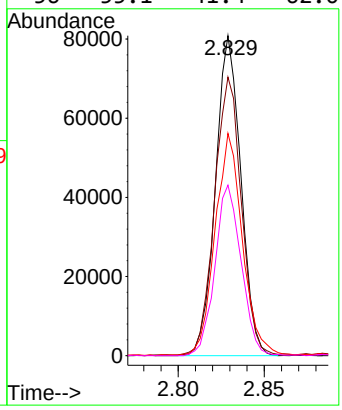


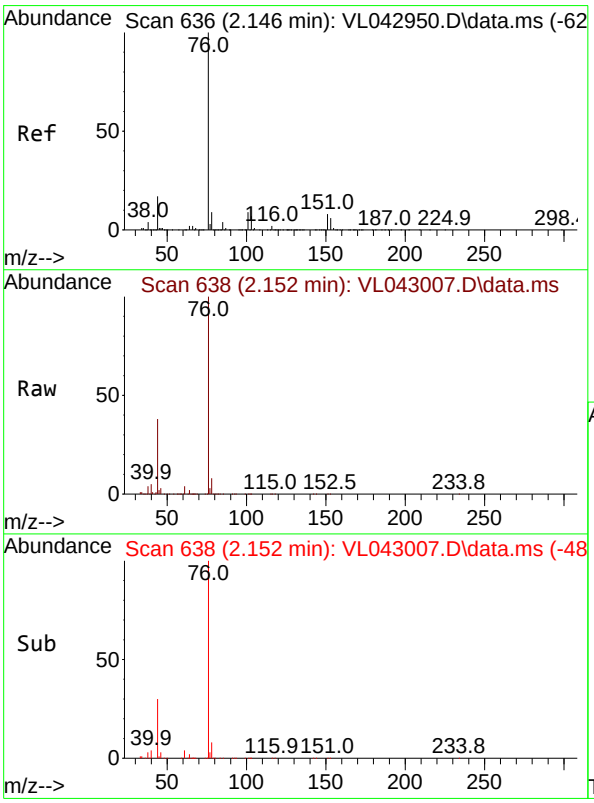
#26
Hexane
Concen: 3.600 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 57 Resp: 82930

Ion	Ratio	Lower	Upper
57	100		
41	92.7	71.7	107.5
43	76.1	180.8	271.2#
56	55.1	41.4	62.0

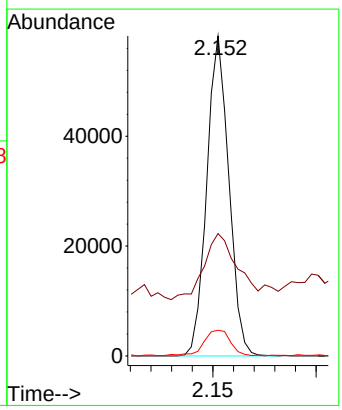


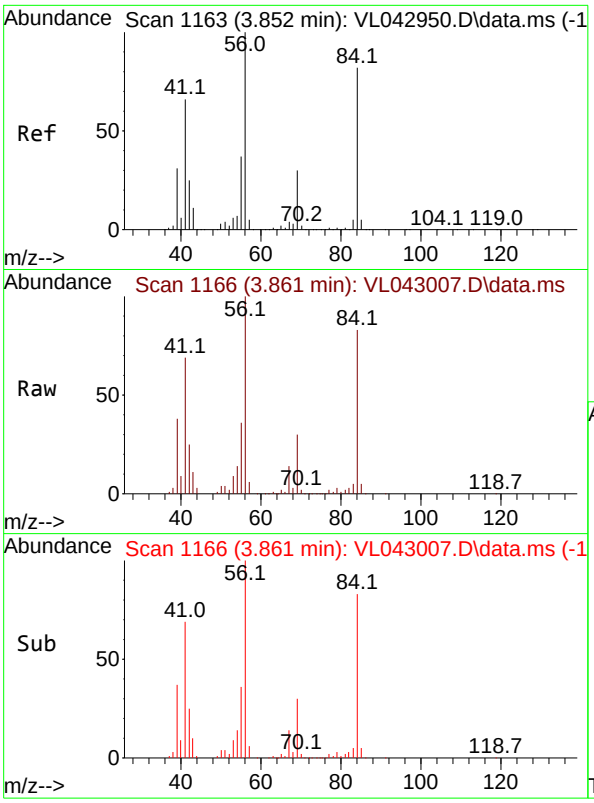


#27
Carbon Disulfide
Concen: 2.095 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 76 Resp: 43286

Ion	Ratio	Lower	Upper
76	100		
44	97.3	15.6	23.4#
78	9.5	8.9	13.3



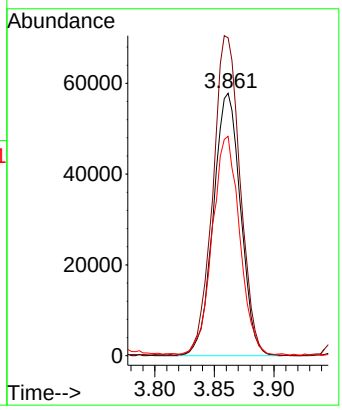


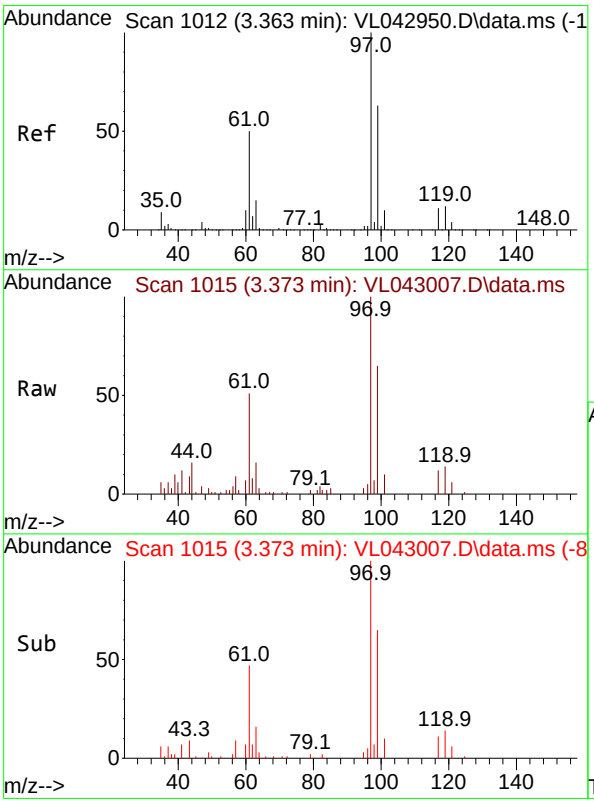
#30
Cyclohexane
Concen: 4.772 ppbv
RT: 3.861 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 84 Resp: 91897

Ion	Ratio	Lower	Upper
84	100		
56	122.4	102.2	153.4
41	84.0	65.6	98.4

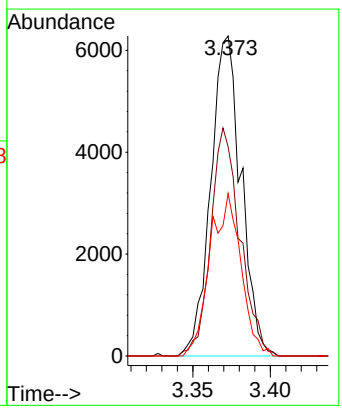


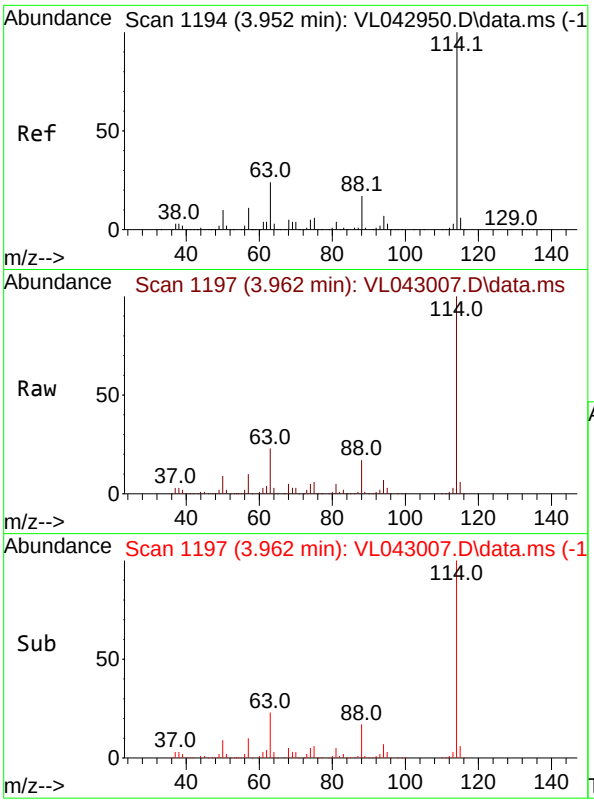


#32
1,1,1-Trichloroethane
Concen: 0.263 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 97 Resp: 8561

Ion	Ratio	Lower	Upper
97	100		
99	68.8	51.1	76.7
61	51.9	39.8	59.6



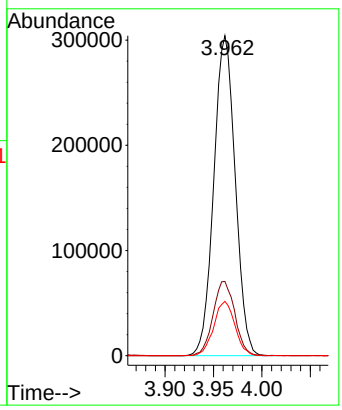


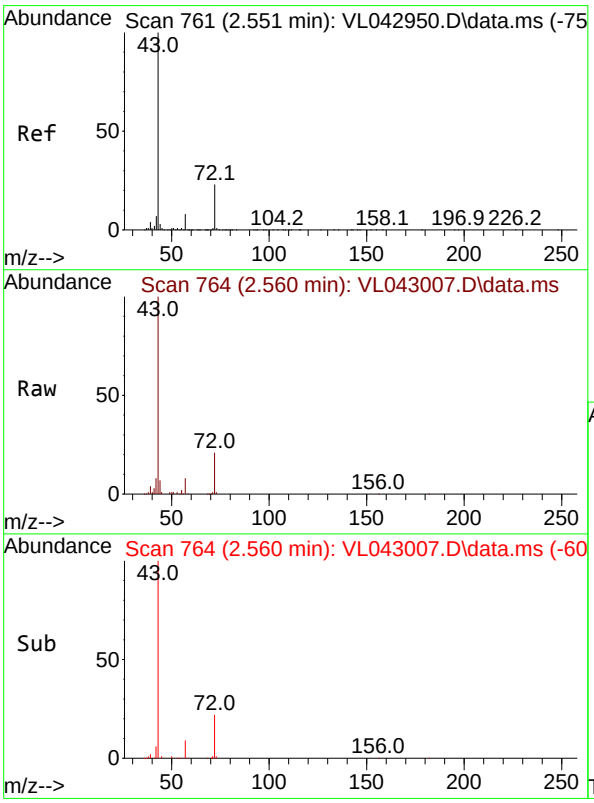
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:114 Resp: 468363

Ion	Ratio	Lower	Upper
114	100		
63	23.6	19.4	29.2
88	16.8	14.2	21.2

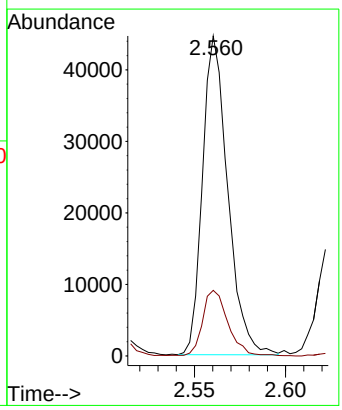


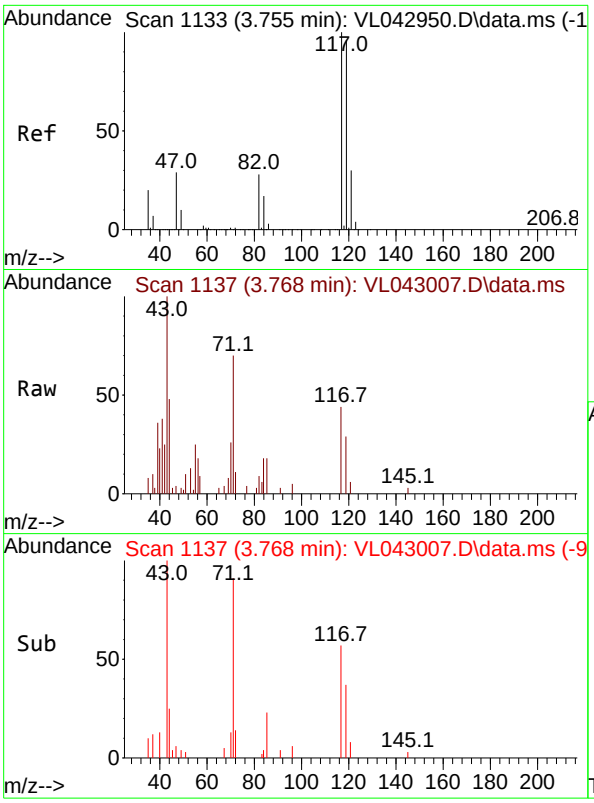


#34
2-Butanone
Concen: 1.310 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 43 Resp: 42998

Ion	Ratio	Lower	Upper
43	100		
72	20.8	17.7	26.5



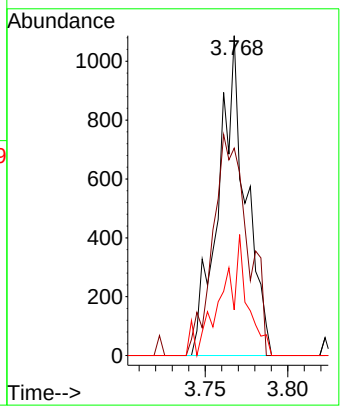


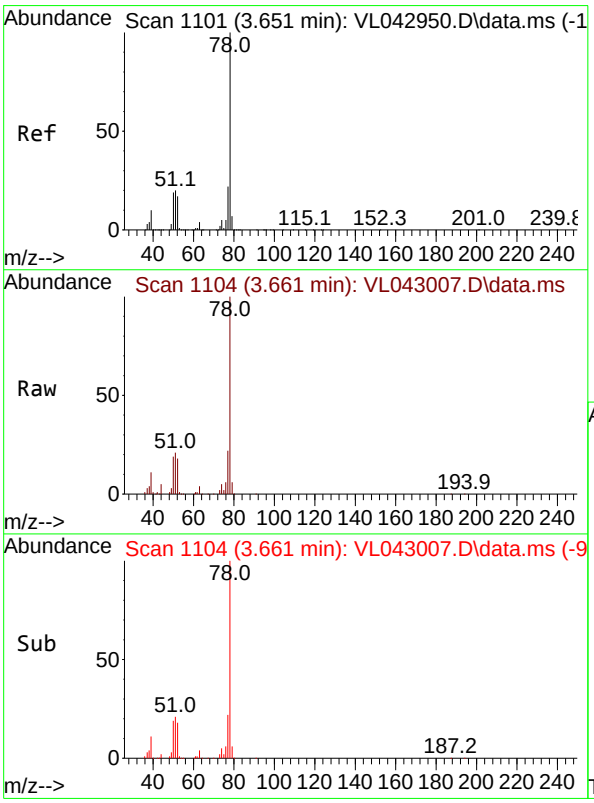
#35
Carbon Tetrachloride
Concen: 0.041 ppbv m
RT: 3.768 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:117 Resp: 1254

Ion	Ratio	Lower	Upper
117	100		
119	64.9	76.9	115.3#
121	14.3	23.7	35.5#

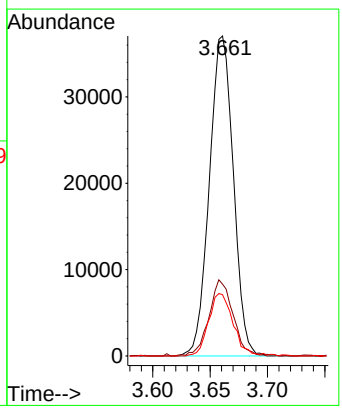


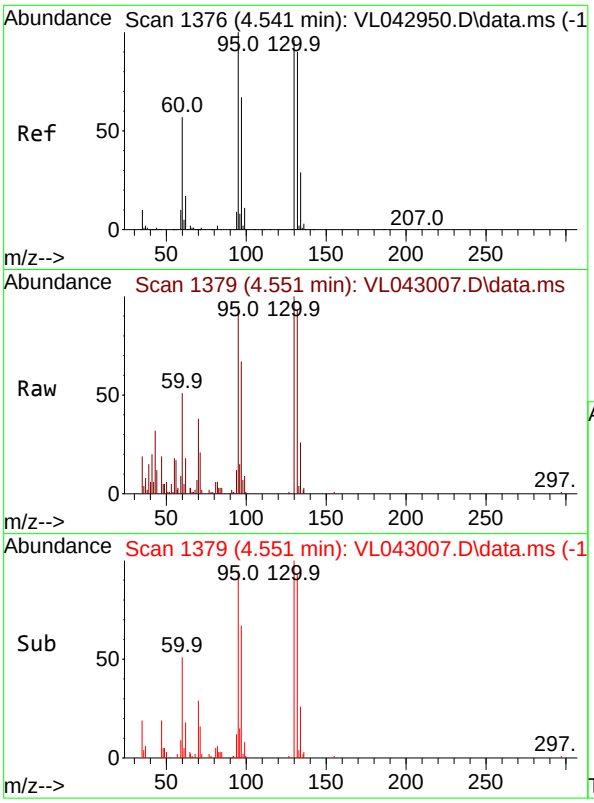


#36
Benzene
Concen: 1.228 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 78 Resp: 53997

Ion	Ratio	Lower	Upper
78	100		
77	22.3	17.8	26.6
50	19.2	15.0	22.4



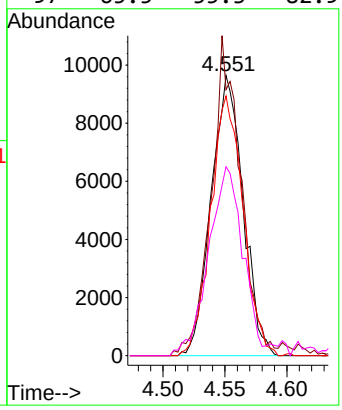


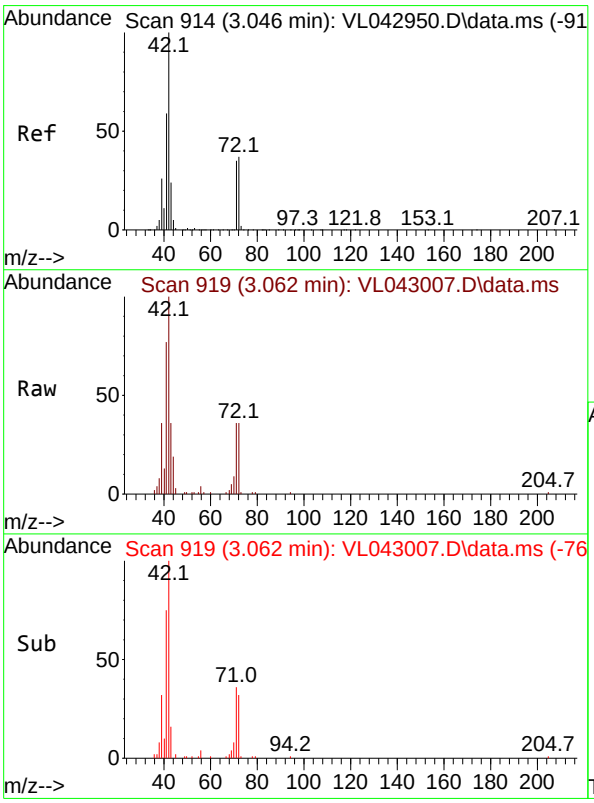
#38
Trichloroethene
Concen: 0.789 ppbv
RT: 4.551 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:130 Resp: 17242

Ion	Ratio	Lower	Upper
130	100		
95	93.7	83.0	124.4
132	92.7	74.6	112.0
97	65.5	55.3	82.9

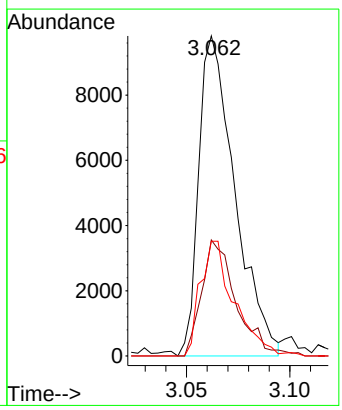


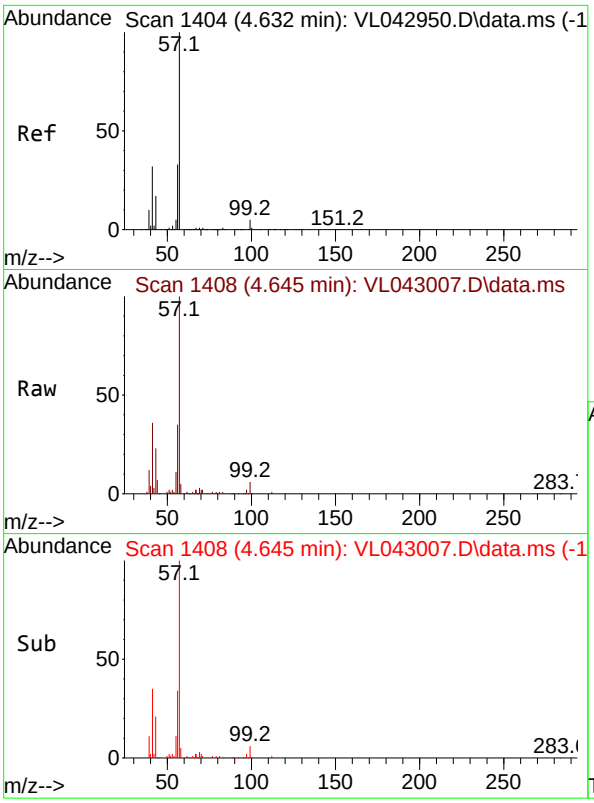


#41
Tetrahydrofuran
Concen: 0.634 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.016 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 42 Resp: 11968

Ion	Ratio	Lower	Upper
42	100		
72	34.6	30.0	45.0
71	33.7	28.8	43.2



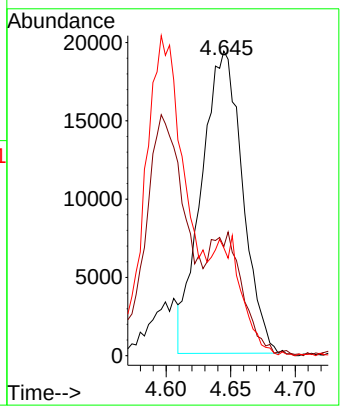


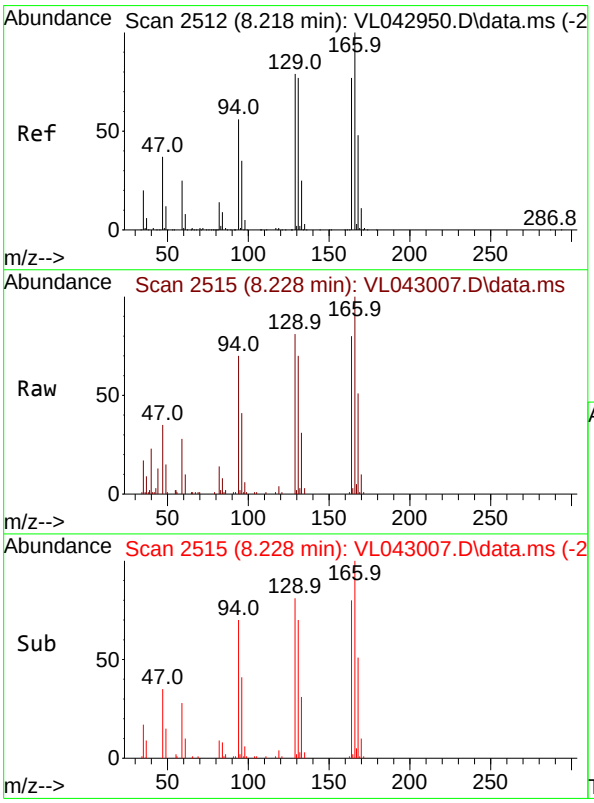
#44
2,2,4-Trimethylpentane
Concen: 0.562 ppbv
RT: 4.645 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 57 Resp: 42705

Ion	Ratio	Lower	Upper
57	100		
41	33.8	25.5	38.3
56	0.0	25.8	38.8#

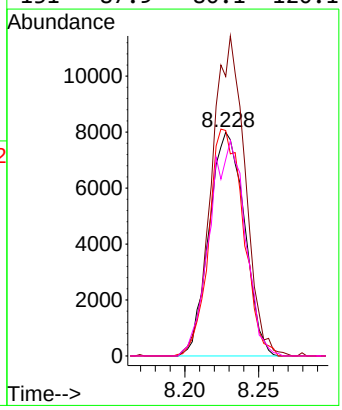


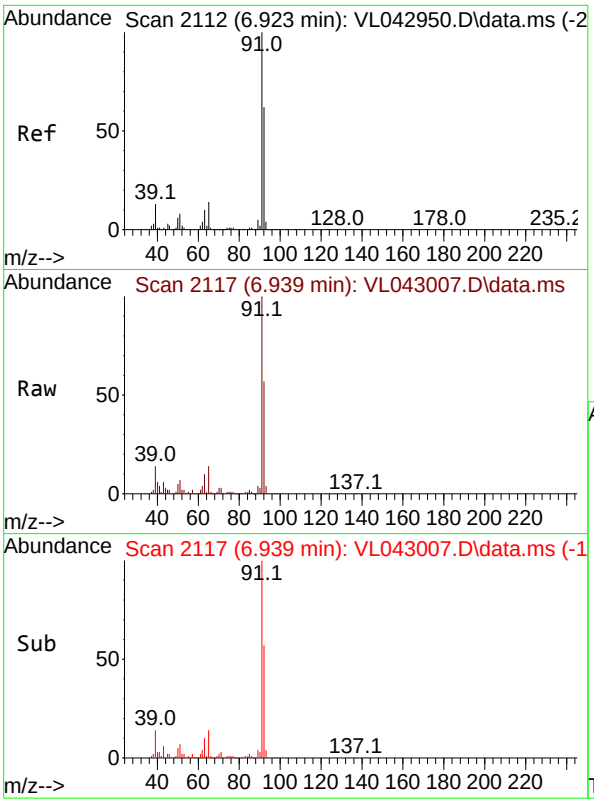


#52
Tetrachloroethene
Concen: 0.782 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:164 Resp: 13311

Ion	Ratio	Lower	Upper
164	100		
166	125.0	103.5	155.3
129	100.8	82.2	123.4
131	87.9	80.1	120.1



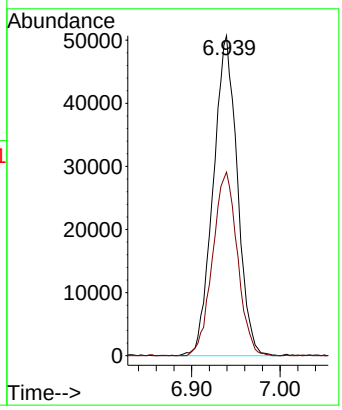


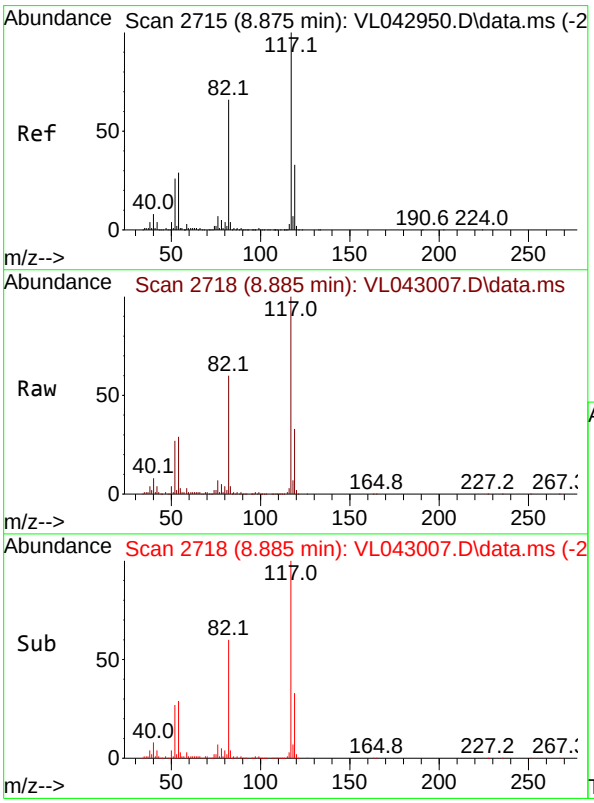
#53
Toluene
Concen: 1.837 ppbv
RT: 6.939 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 95651

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.2

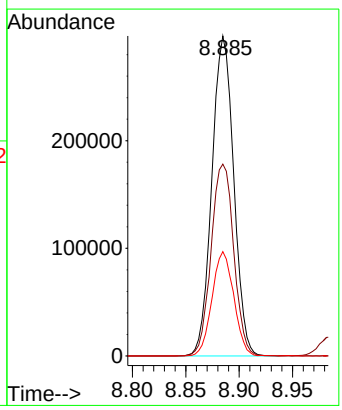


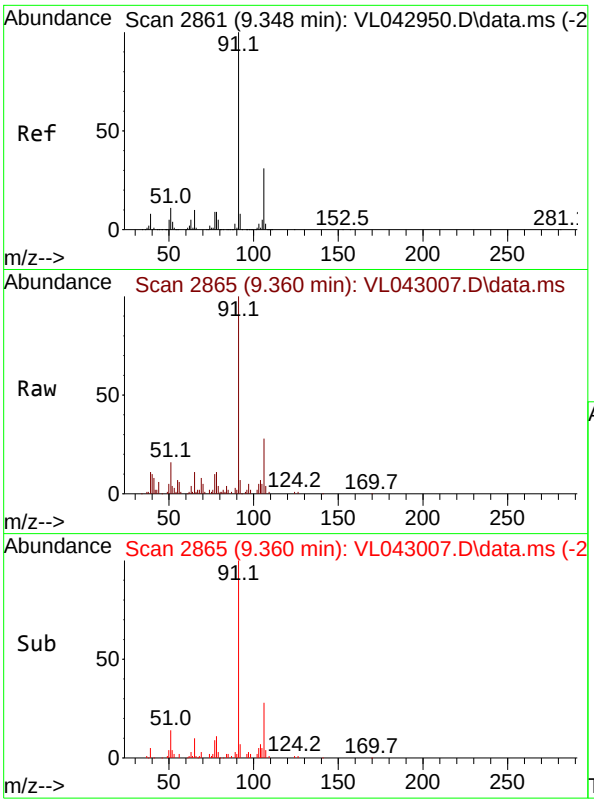


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:117 Resp: 423322

Ion	Ratio	Lower	Upper
117	100		
82	62.2	52.8	79.2
119	32.6	26.5	39.7



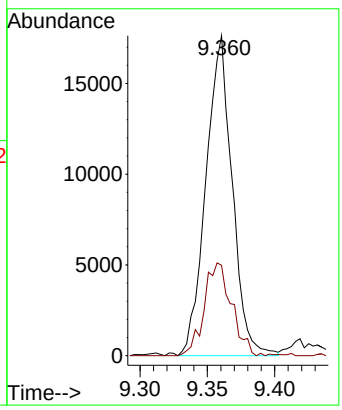


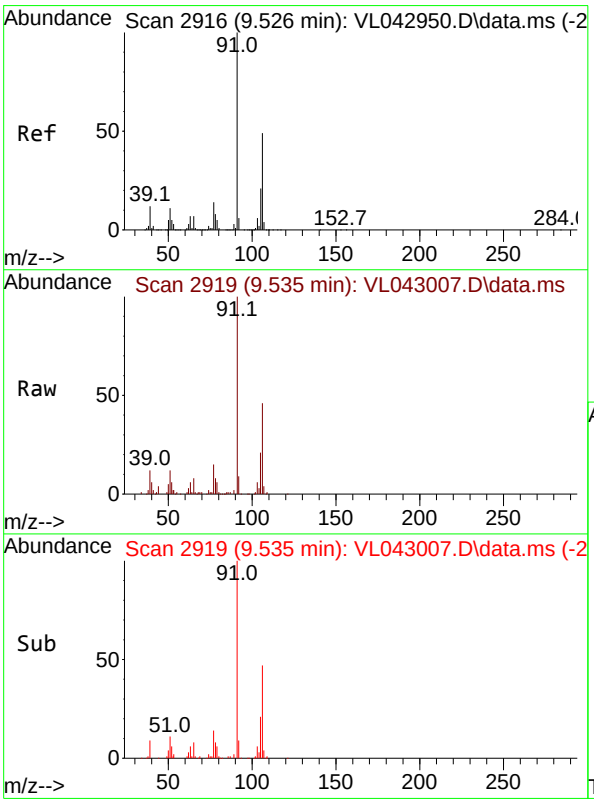
#58
Ethyl Benzene
Concen: 0.345 ppbv
RT: 9.360 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 23962

Ion	Ratio	Lower	Upper
91	100		
106	28.3	24.6	37.0

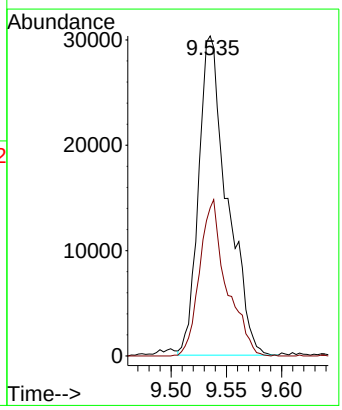


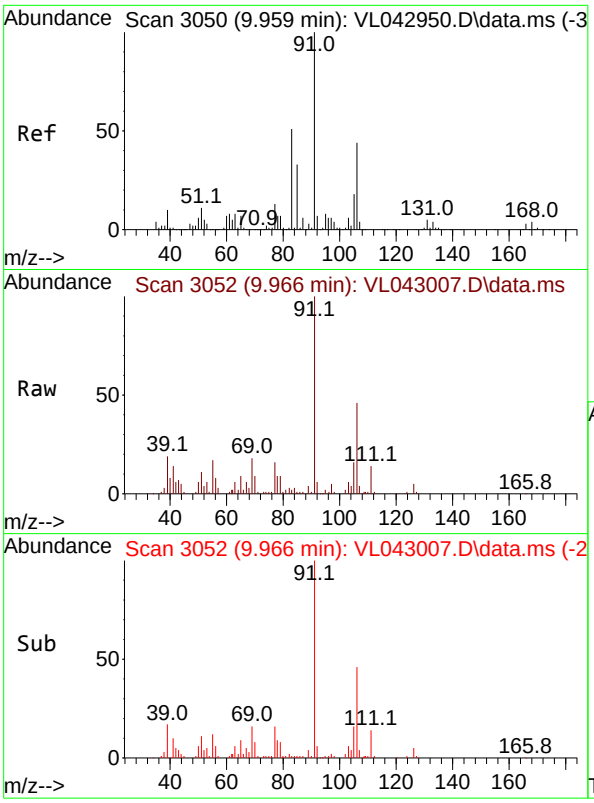


#59
m/p-Xylene
Concen: 0.993 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. 0.009 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 91 Resp: 54439

Ion	Ratio	Lower	Upper
91	100		
106	46.1	0.0	0.0#



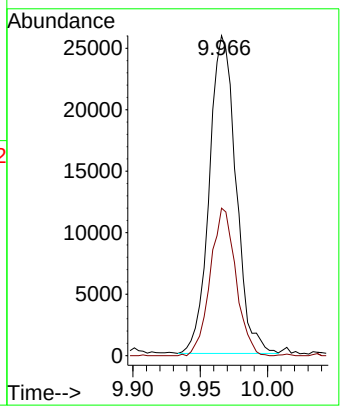


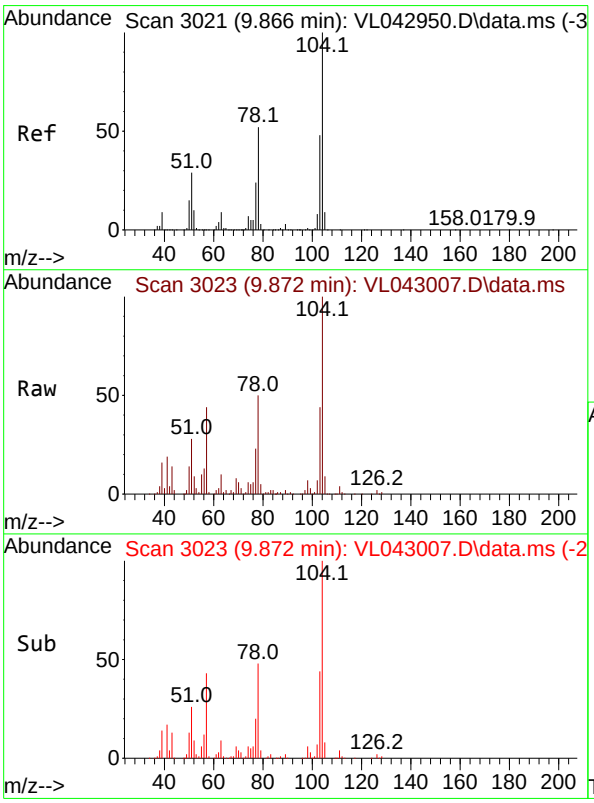
#60
o-Xylene
Concen: 0.649 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 35535

Ion	Ratio	Lower	Upper
91	100		
106	44.4	22.4	67.0

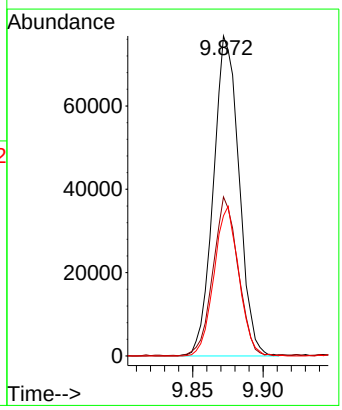


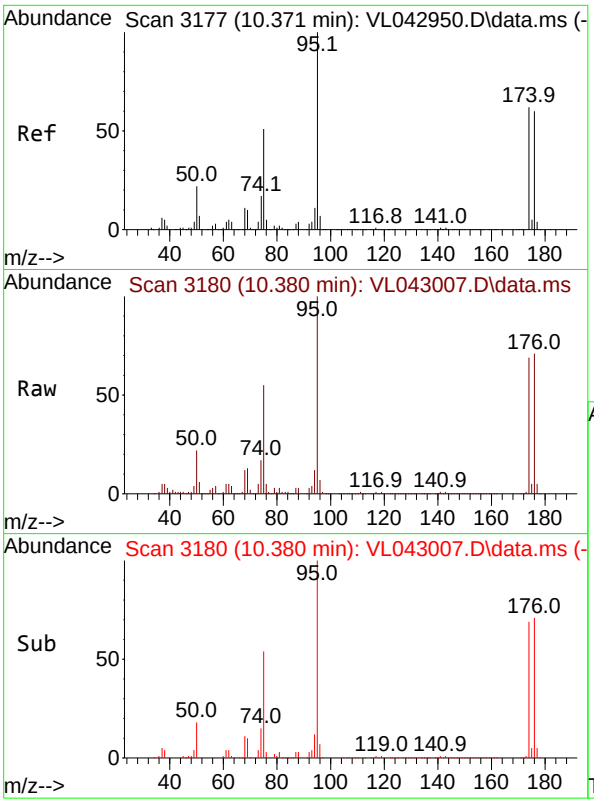


#61
Styrene
Concen: 3.758 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:104 Resp: 97357

Ion	Ratio	Lower	Upper
104	100		
78	49.3	39.9	59.9
103	45.2	36.9	55.3



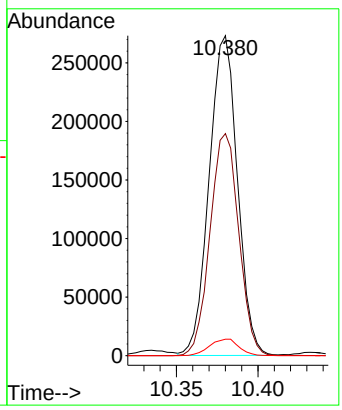


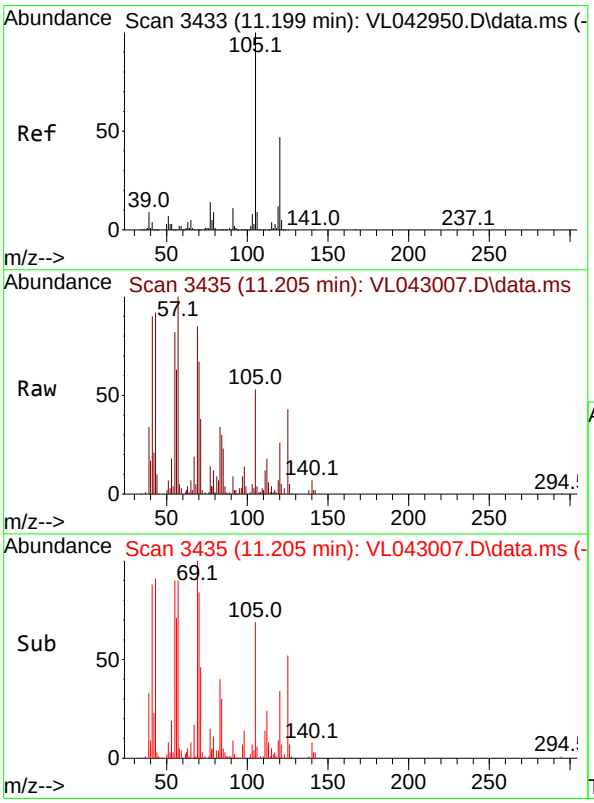
#68
1-Bromo-4-Fluorobenzene
Concen: 10.419 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.009 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 329247

Ion	Ratio	Lower	Upper
95	100		
174	70.8	51.4	77.2
175	5.4	4.0	6.0

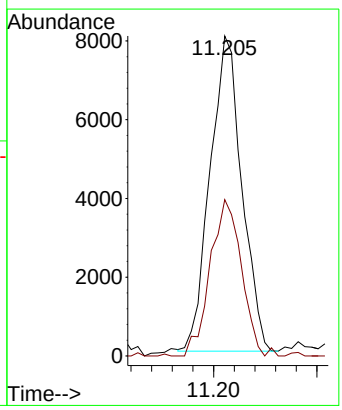


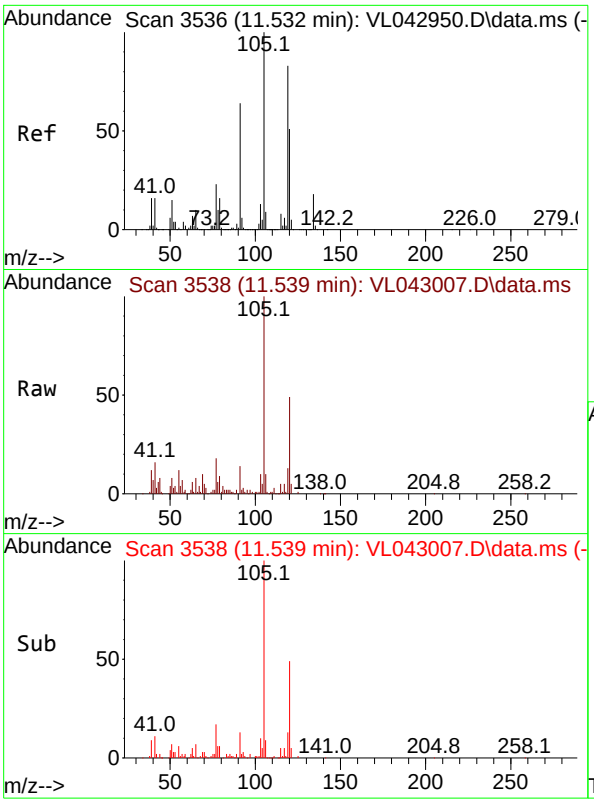


#73
1,3,5-Trimethylbenzene
Concen: 0.154 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:105 Resp: 8544

Ion	Ratio	Lower	Upper
105	100		
120	49.6	38.0	57.0



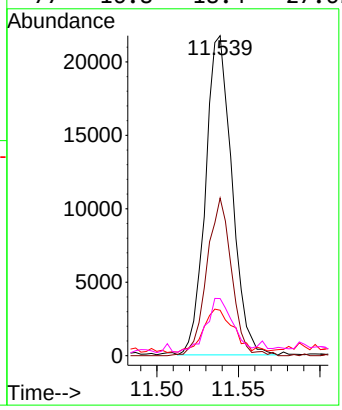


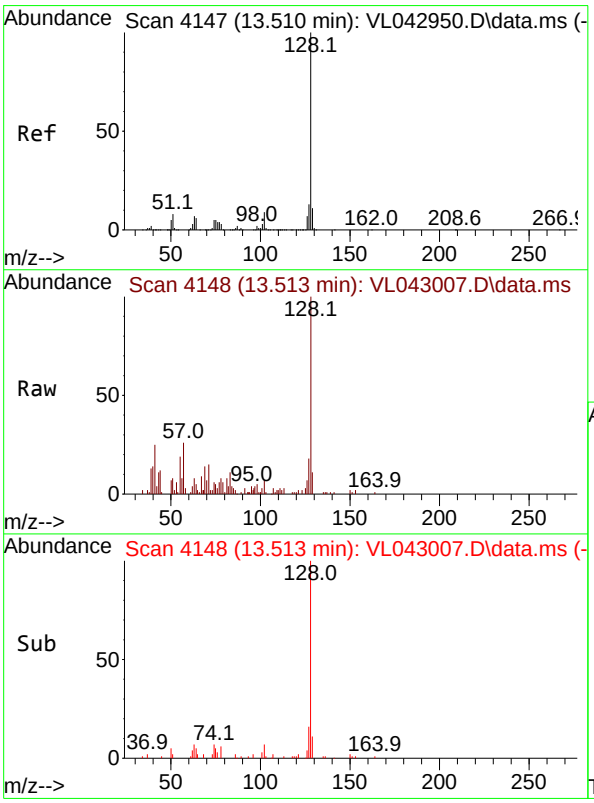
#74
1,2,4-Trimethylbenzene
Concen: 0.399 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 24496

Ion	Ratio	Lower	Upper
105	100		
120	49.0	40.9	61.3
91	13.1	51.2	76.8#
77	16.8	18.4	27.6#

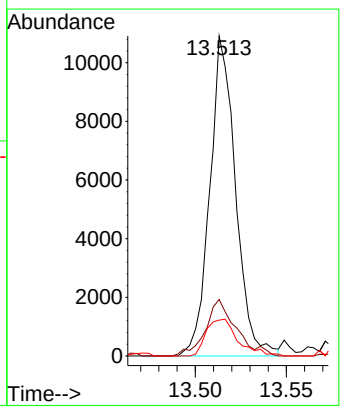




#79
Naphthalene
Concen: 0.198 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:128 Resp: 10737

Ion	Ratio	Lower	Upper
128	100		
127	17.7	10.6	15.8#
129	11.2	9.0	13.6



CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GFEL01

Lab Code: ACE SDG No.: Q3154

Instrument ID: MSVOA_L Calibration Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:39 13:05

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF010 = VL042950.D RRF002 = VL042951.D RRF001 = VL042952.D
RRF0.5 = VL042953.D RRF0.1 = VL042954.D RRF.03 = VL042955.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{\text{RRF}}$	% RSD
Vinyl Chloride	0.470	0.524	0.567	0.529	0.562	0.729	0.550	15.9
Heptane	1.870	1.961	2.060	2.102			1.946	7.6
1,1-Dichloroethane	0.993	1.109	1.172	1.147			1.083	7.8
Cyclohexane	1.193	1.280	1.333	1.312			1.255	6.2
cis-1,2-Dichloroethene	1.357	1.465	1.464	1.443			1.406	5.3
1,1,1-Trichloroethane	1.902	2.071	2.164	2.017	2.087	2.724	2.119	13.5
Benzene	0.898	0.972	0.970	0.974			0.939	4.8
Trichloroethene	0.426	0.452	0.467	0.481	0.495	0.527	0.467	8.2
Toluene	1.078	1.156	1.137	1.155			1.111	5
Tetrachloroethene	0.325	0.351	0.355	0.356	0.404	0.436	0.363	11.8
Ethyl Benzene	1.570	1.737	1.715	1.657			1.642	5.5
o-Xylene	1.221	1.359	1.379	1.335			1.294	7
1,3,5-Trimethylbenzene	1.263	1.399	1.346	1.333			1.314	5.1
1,2,4-Trimethylbenzene	1.349	1.558	1.522	1.534			1.451	8.3
Naphthalene	1.373	1.474	1.320	1.102	1.093		1.283	12
1-Bromo-4-Fluorobenzene	0.763	0.747	0.743	0.749	0.738	0.736	0.746	1.2
Hexane	1.398	1.553	1.614	1.621			1.501	9.1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025
Response Via : Initial Calibration

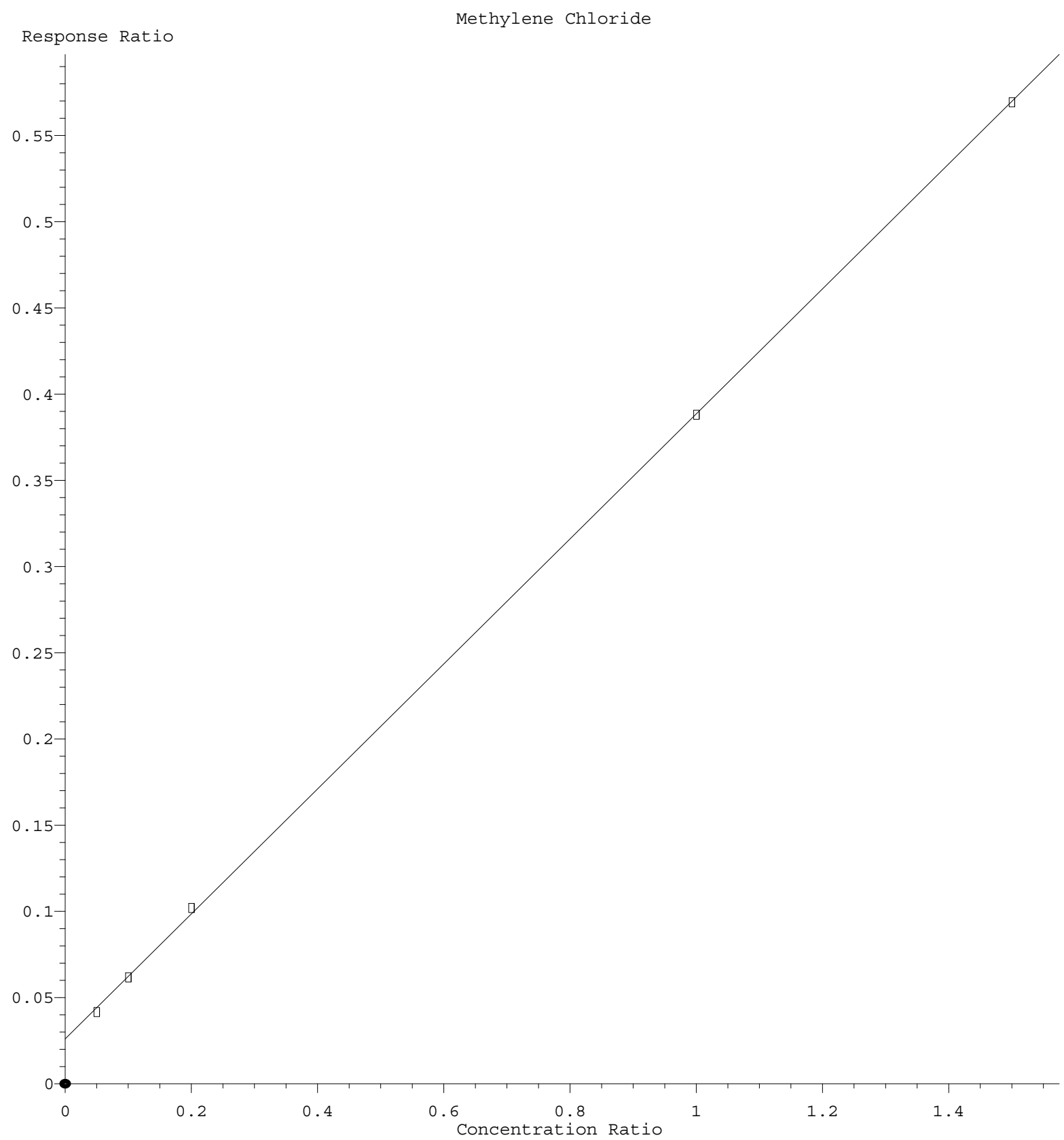
Calibration Files
0.03=VL042955.D 0.1 =VL042954.D 0.5 =VL042953.D 1 =VL042952.D 2 =VL042951.D 10 =VL042950.D 15 =VL042956.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.391	1.452	1.401	1.248	1.232	1.345	7.33
3)		Chlorodifluoro...			1.782	1.821	1.710	1.574	1.494	1.676	8.27
4)		Chloromethane			0.693	0.622	0.624	0.560	0.545	0.609	9.66
5)	T	Vinyl Chloride	0.729	0.562	0.529	0.567	0.524	0.470	0.472	0.550	15.95
6)	T	Bromomethane			0.224	0.215	0.200	0.166	0.167	0.194	13.76
7)		Chloroethane			0.234	0.238	0.212	0.196	0.189	0.214	10.33
8)	T	Dichlorotetraf...			1.227	1.239	1.180	1.047	1.047	1.148	8.24
9)	T	Propene			0.784	0.787	0.762	0.684	0.631	0.729	9.47
10)	T	Heptane			2.102	2.060	1.961	1.870	1.738	1.946	7.57
11)	T	Trichlorofluor...			1.354	1.376	1.346	1.199	1.210	1.297	6.58
12)	T	1,1,2-Trichlor...			1.130	1.117	1.068	0.963	0.973	1.050	7.48
13)		Ethanol			0.076	0.090	0.088	0.053	0.047	0.071	27.75
14)	T	Bromoethene			0.430	0.417	0.415	0.362	0.362	0.397	8.23
15)	T	Acetone			1.490	1.552	1.475	0.993	1.002	1.302	21.48
16)	T	1,3-Butadiene			0.751	0.675	0.607	0.520	0.519	0.614	16.41
17)		tert-Butyl alc...			1.587	1.544	1.398	1.351	1.262	1.429	9.47
18)	T	1,1-Dichloroet...			0.549	0.503	0.485	0.446	0.447	0.486	8.86
19)	T	Isopropyl Alcohol			0.898	0.813	0.818	0.718	0.667	0.783	11.61
20)	T	Methylene Chlo...			0.832	0.617	0.510	0.388	0.380	0.545	34.40
21)	T	Allyl Chloride			0.904	0.971	0.966	0.857	0.837	0.907	6.72
22)	T	trans-1,2-Dich...			0.589	0.612	0.556	0.507	0.499	0.552	8.98
23)	T	Vinyl Acetate			2.208	1.897	1.888	1.594	1.716	1.861	12.45
24)	T	1,1-Dichloroet...			1.147	1.172	1.109	0.993	0.996	1.083	7.76
25)	T	Ethyl Acetate			3.405	3.494	3.443	3.153	2.966	3.292	6.83
26)	T	Hexane			1.621	1.614	1.553	1.398	1.317	1.501	9.08
27)	T	Carbon Disulfide			1.395	1.436	1.396	1.271	1.232	1.346	6.59
28)	T	Methyl tert-Bu...			0.953	0.773	0.742	0.638	0.794	0.780	14.61
29)	T	Chloroform			2.078	2.042	2.038	1.848	1.804	1.962	6.42
30)	T	Cyclohexane			1.312	1.333	1.280	1.193	1.154	1.255	6.19
31)	T	cis-1,2-Dichlo...			1.443	1.464	1.465	1.357	1.300	1.406	5.26
32)	T	1,1,1-Trichlor...	2.724	2.087	2.017	2.164	2.071	1.902	1.868	2.119	13.51
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.744	0.731	0.741	0.655	0.633	0.701	7.52
35)	T	Carbon Tetrach...	0.734	0.616	0.660	0.665	0.657	0.610	0.617	0.651	6.63
36)	T	Benzene			0.974	0.970	0.972	0.898	0.881	0.939	4.84
37)	T	1,2-Dichloroet...			0.502	0.517	0.507	0.470	0.473	0.494	4.28
38)	T	Trichloroethene	0.527	0.495	0.481	0.467	0.452	0.426	0.419	0.467	8.20
39)	T	1,2-Dichloropr...			0.344	0.361	0.356	0.327	0.325	0.343	4.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL092225AIR.M

40)	T	1,4-Dioxane			0.173	0.172	0.163	0.148	0.141	0.159	8.95
41)	T	Tetrahydrofuran			0.427	0.407	0.419	0.389	0.372	0.403	5.57
42)	T	Bromodichlorom...			0.689	0.699	0.702	0.681	0.667	0.688	2.07
43)		Methyl Methacr...			0.406	0.396	0.396	0.368	0.355	0.384	5.61
44)	T	2,2,4-Trimethy...			1.705	1.660	1.690	1.563	1.492	1.622	5.64
45)	T	t-1,3-Dichloro...			0.403	0.414	0.421	0.409	0.402	0.410	1.99
46)	T	cis-1,3-Dichlo...			0.522	0.528	0.537	0.523	0.501	0.522	2.55
47)	T	1,1,2-Trichlor...			0.382	0.377	0.371	0.344	0.336	0.362	5.70
48)	T	Dibromochlorom...			0.572	0.586	0.600	0.571	0.568	0.580	2.36
49)	T	Bromoform			0.477	0.507	0.534	0.508	0.495	0.504	4.18
50)	T	4-Methyl-2-Pen...			0.928	0.949	0.988	0.934	0.897	0.939	3.51
51)	T	2-Hexanone			0.719	0.774	0.769	0.751	0.730	0.749	3.19
52)	T	Tetrachloroethene	0.436	0.404	0.356	0.355	0.351	0.325	0.315	0.363	11.76
53)	T	Toluene			1.155	1.137	1.156	1.078	1.031	1.111	4.95
54)	T	1,2-Dibromoethane		0.520	0.520	0.520	0.525	0.490	0.485	0.510	3.47
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.497	0.486	0.505	0.458	0.447	0.479	5.28
57)	T	Chlorobenzene			0.968	0.978	0.944	0.853	0.822	0.913	7.75
58)	T	Ethyl Benzene			1.657	1.715	1.737	1.570	1.531	1.642	5.45
59)	T	m/p-Xylene			1.332	1.365	1.361	1.225	1.190	1.295	6.29
60)	T	o-Xylene			1.335	1.379	1.359	1.221	1.176	1.294	6.96
61)	T	Styrene			0.605	0.619	0.648	0.602	0.585	0.612	3.89
62)		Isopropylbenzene			2.010	2.059	2.028	1.803	1.744	1.929	7.49
63)	T	1,1,2,2-Tetrac...	0.806	0.722	0.688	0.675	0.673	0.610	0.586	0.680	10.66
64)		n-propylbenzene			0.531	0.529	0.523	0.473	0.463	0.504	6.51
65)		tert-Butylbenzene			1.836	1.839	1.842	1.557	1.503	1.715	9.91
66)	T	Benzyl Chloride			0.170	0.173	0.196	0.195	0.165	0.180	8.14
67)		sec-Butylbenzene			2.508	2.559	2.579	2.191	2.115	2.390	9.19
68)	S	1-Bromo-4-Fluo...	0.736	0.738	0.749	0.743	0.747	0.763	0.750	0.746	1.20
69)		p-Isopropyltol...			2.105	2.168	2.179	1.856	1.788	2.019	9.11
70)		n-Butylbenzene			1.929	2.108	2.136	1.881	1.803	1.971	7.36
71)		2-Chlorotoluene			1.543	1.504	1.528	1.373	1.333	1.456	6.61
72)	T	4-Ethyltoluene			1.715	1.686	1.703	1.523	1.476	1.621	6.92
73)	T	1,3,5-Trimethy...			1.333	1.346	1.399	1.263	1.231	1.314	5.12
74)	T	1,2,4-Trimethy...			1.534	1.522	1.558	1.349	1.294	1.451	8.34
75)	T	1,3-Dichlorobe...			0.918	0.954	0.956	0.845	0.827	0.900	6.72
76)	T	1,4-Dichlorobe...			0.922	0.914	0.959	0.845	0.829	0.894	6.12
77)	T	1,2-Dichlorobe...			0.874	0.914	0.918	0.796	0.780	0.856	7.61
78)	T	Hexachloro-1,3...			0.755	0.742	0.728	0.575	0.549	0.670	14.79
79)	T	Naphthalene		1.093	1.102	1.320	1.474	1.373	1.339	1.283	11.96
80)	T	Naphthalene,2-...			0.384	0.365	0.428	0.402	0.404	0.396	5.94
81)	T	1,2,4-Trichlor...			0.557	0.691	0.777	0.718	0.689	0.686	11.73

(#) = Out of Range



Response = 3.623e-001 * Amt + 2.601e-002
Coef of Det (r^2) = 0.999913 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL092225AIR.M
Calibration Table Last Updated: Tue Sep 23 02:39:16 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042950.D
Acq On : 22 Sep 2025 09:39
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	170899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	526679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	486724	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	371195	10.217	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	213351	9.282	ppbv	100
3) Chlorodifluoromethane	1.473	51	269073	9.392	ppbv	100
4) Chloromethane	1.531	50	95679	9.196	ppbv	100
5) Vinyl Chloride	1.577	62	80350	8.543	ppbv	100
6) Bromomethane	1.667	94	28301	8.530	ppbv	100
7) Chloroethane	1.703	64	33446	9.158	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	178992	9.122	ppbv	100
9) Propene	1.483	41	116849	9.376	ppbv	100
10) Heptane	4.969	43	319577	9.560	ppbv	100
11) Trichlorofluoromethane	1.874	101	204850	9.243	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	164598	9.171	ppbv	100
13) Ethanol	1.719	45	9094	7.613	ppbv	100
14) Bromoethene	1.780	108	61824	9.111	ppbv	100
15) Acetone	1.832	43	169676	7.623	ppbv	100
16) 1,3-Butadiene	1.606	39	88812	8.459	ppbv	100
17) tert-Butyl alcohol	2.036	59	230853	9.456	ppbv	100
18) 1,1-Dichloroethene	2.030	96	76184	9.170	ppbv	100
19) Isopropyl Alcohol	1.884	45	122753	9.174	ppbv	100
20) Methylene Chloride	2.059	84	66314	9.992	ppbv	100
21) Allyl Chloride	2.094	41	146473	9.449	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	86580	9.172	ppbv	100
23) Vinyl Acetate	2.460	43	272378	8.566	ppbv	100
24) 1,1-Dichloroethane	2.405	63	169721	9.168	ppbv	100
25) Ethyl Acetate	2.829	43	538761	9.577	ppbv	100
26) Hexane	2.823	57	238896	9.316	ppbv	100
27) Carbon Disulfide	2.146	76	217259	9.446	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	108987	8.176	ppbv	100
29) Chloroform	2.845	83	315779	9.418	ppbv	100
30) Cyclohexane	3.852	84	203803	9.506	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	231907	9.654	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	325118	8.947	ppbv	100
34) 2-Butanone	2.551	43	344874	9.343	ppbv	100
35) Carbon Tetrachloride	3.755	117	321267	9.480	ppbv	100
36) Benzene	3.651	78	472855	9.561	ppbv	100
37) 1,2-Dichloroethane	3.214	62	247754	9.525	ppbv	100
38) Trichloroethene	4.541	130	224516	9.134	ppbv	100
39) 1,2-Dichloropropane	4.305	63	172059	9.523	ppbv	100
40) 1,4-Dioxane	4.570	88	77889	9.283	ppbv #	100
41) Tetrahydrofuran	3.046	42	204724	9.649	ppbv	100
42) Bromodichloromethane	4.480	83	358858	9.903	ppbv	100
43) Methyl Methacrylate	4.871	69	193676	9.646	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	823031	9.631	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	215233	9.969	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042950.D
Acq On : 22 Sep 2025 09:39
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.590	75	275210	10.006	ppbv		100
47)	1,1,2-Trichloroethane	6.571	97	181329	9.498	ppbv		100
48)	Dibromochloromethane	7.383	129	300497	9.845	ppbv		100
49)	Bromoform	9.480	173	267814	10.087	ppbv		100
50)	4-Methyl-2-Pentanone	5.736	43	492068	9.920	ppbv		100
51)	2-Hexanone	7.428	43	395744	10.036	ppbv	#	100
52)	Tetrachloroethene	8.218	164	171294	8.951	ppbv		100
53)	Toluene	6.923	91	567779	9.699	ppbv		100
54)	1,2-Dibromoethane	7.645	107	257904	9.605	ppbv		100
56)	1,1,1,2-Tetrachloroethane	8.921	131	223066	9.575	ppbv		100
57)	Chlorobenzene	8.917	112	415238	9.345	ppbv		100
58)	Ethyl Benzene	9.348	91	764249	9.562	ppbv		100
59)	m/p-Xylene	9.526	91	1192566m	18.913	ppbv		
60)	o-Xylene	9.959	91	594329	9.437	ppbv		100
61)	Styrene	9.866	104	293111	9.840	ppbv		100
62)	Isopropylbenzene	10.536	105	877401	9.347	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.956	83	296678	8.963	ppbv		100
64)	n-propylbenzene	10.985	120	230432	9.394	ppbv		100
65)	tert-Butylbenzene	11.526	119	757958	9.078	ppbv		100
66)	Benzyl Chloride	11.610	91	94982	10.842	ppbv		100
67)	sec-Butylbenzene	11.762	105	1066409	9.166	ppbv		100
69)	p-Isopropyltoluene	11.921	119	903376	9.192	ppbv		100
70)	n-Butylbenzene	12.277	91	915624	9.543	ppbv		100
71)	2-Chlorotoluene	10.895	91	668239	9.428	ppbv		100
72)	4-Ethyltoluene	11.121	105	741298	9.398	ppbv		100
73)	1,3,5-Trimethylbenzene	11.199	105	614632	9.608	ppbv		100
74)	1,2,4-Trimethylbenzene	11.532	105	656535	9.294	ppbv		100
75)	1,3-Dichlorobenzene	11.604	146	411473	9.392	ppbv		100
76)	1,4-Dichlorobenzene	11.668	146	411464	9.456	ppbv		100
77)	1,2-Dichlorobenzene	11.944	146	387219	9.289	ppbv		100
78)	Hexachloro-1,3-Butadiene	13.876	225	280080	8.591	ppbv		100
79)	Naphthalene	13.510	128	668171	10.696	ppbv		100
80)	Naphthalene,2-methyl-	14.452	142	195695	10.142	ppbv		100
81)	1,2,4-Trichlorobenzene	13.436	180	349393	10.461	ppbv		100

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

Quantitation Report (QT Reviewed)

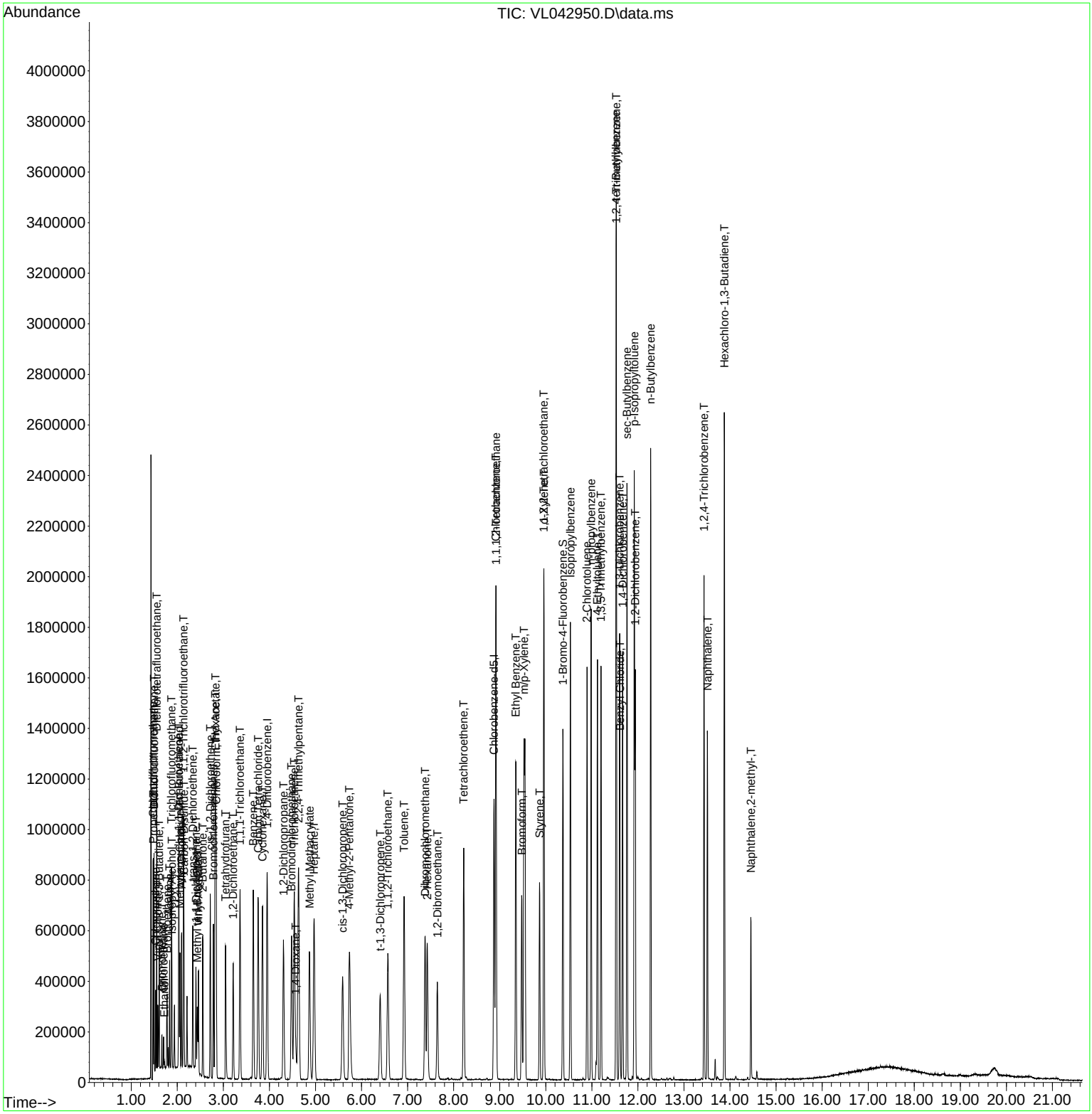
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042950.D
Acq On : 22 Sep 2025 09:39
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042951.D
Acq On : 22 Sep 2025 10:14
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	170758	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	524389	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	483821	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	361586	10.012	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	47851	2.083	ppbv		97
3) Chlorodifluoromethane	1.476	51	58395	2.040	ppbv		95
4) Chloromethane	1.534	50	21326	2.051	ppbv		99
5) Vinyl Chloride	1.580	62	17892	1.904	ppbv		98
6) Bromomethane	1.667	94	6816	2.056	ppbv		96
7) Chloroethane	1.706	64	7250	1.987	ppbv	#	85
8) Dichlorotetrafluoroethane	1.554	85	40306	2.056	ppbv		98
9) Propene	1.483	41	26007	2.088	ppbv		99
10) Heptane	4.978	43	66978	2.005	ppbv		99
11) Trichlorofluoromethane	1.877	101	45973	2.076	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.140	101	36490	2.035	ppbv		98
13) Ethanol	1.722	45	2989	2.504	ppbv		93
14) Bromoethene	1.784	108	14189	2.093	ppbv	#	96
15) Acetone	1.835	43	50357	2.264	ppbv		99
16) 1,3-Butadiene	1.609	39	20729	1.976	ppbv		94
17) tert-Butyl alcohol	2.042	59	47749	1.957	ppbv	#	93
18) 1,1-Dichloroethene	2.036	96	16572	1.996	ppbv		95
19) Isopropyl Alcohol	1.887	45	27930	2.089	ppbv	#	79
20) Methylene Chloride	2.062	84	17413	2.097	ppbv	#	84
21) Allyl Chloride	2.098	41	32985	2.130	ppbv		99
22) trans-1,2-Dichloroethene	2.340	96	18991	2.013	ppbv		98
23) Vinyl Acetate	2.463	43	64479	2.029	ppbv	#	98
24) 1,1-Dichloroethane	2.408	63	37865	2.047	ppbv		99
25) Ethyl Acetate	2.835	43	117567	2.092	ppbv		99
26) Hexane	2.826	57	53034	2.070	ppbv		98
27) Carbon Disulfide	2.153	76	47660	2.074	ppbv	#	60
28) Methyl tert-Butyl Ether	2.441	73	25348	1.903	ppbv		92
29) Chloroform	2.848	83	69599	2.077	ppbv		96
30) Cyclohexane	3.855	84	43725	2.041	ppbv		99
31) cis-1,2-Dichloroethene	2.719	61	50019	2.084	ppbv		95
32) 1,1,1-Trichloroethane	3.366	97	70729	1.948	ppbv		97
34) 2-Butanone	2.557	43	77689	2.114	ppbv		98
35) Carbon Tetrachloride	3.761	117	68858	2.041	ppbv		95
36) Benzene	3.658	78	101901	2.069	ppbv		97
37) 1,2-Dichloroethane	3.217	62	53130	2.052	ppbv		98
38) Trichloroethene	4.548	130	47424	1.938	ppbv		94
39) 1,2-Dichloropropane	4.308	63	37381m	2.078	ppbv		
40) 1,4-Dioxane	4.586	88	17074m	2.044	ppbv		
41) Tetrahydrofuran	3.056	42	43962	2.081	ppbv		98
42) Bromodichloromethane	4.486	83	73675	2.042	ppbv		98
43) Methyl Methacrylate	4.881	69	41527	2.077	ppbv		99
44) 2,2,4-Trimethylpentane	4.638	57	177242	2.083	ppbv		99
45) t-1,3-Dichloropropene	6.415	75	44171	2.055	ppbv		91

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042951.D
Acq On : 22 Sep 2025 10:14
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46)	cis-1,3-Dichloropropene	5.596	75	56335	2.057	ppbv	97
47)	1,1,2-Trichloroethane	6.577	97	38961m	2.050	ppbv	
48)	Dibromochloromethane	7.383	129	62968	2.072	ppbv	98
49)	Bromoform	9.480	173	56021	2.119	ppbv	99
50)	4-Methyl-2-Pentanone	5.755	43	103605m	2.098	ppbv	
51)	2-Hexanone	7.438	43	80620	2.053	ppbv	99
52)	Tetrachloroethene	8.224	164	36853	1.934	ppbv	94
53)	Toluene	6.933	91	121268	2.081	ppbv	100
54)	1,2-Dibromoethane	7.652	107	55022	2.058	ppbv	94
56)	1,1,1,2-Tetrachloroethane	8.920	131	48901	2.112	ppbv	98
57)	Chlorobenzene	8.924	112	91325	2.068	ppbv	94
58)	Ethyl Benzene	9.354	91	168063	2.115	ppbv	99
59)	m/p-Xylene	9.532	91	263362m	4.202	ppbv	
60)	o-Xylene	9.963	91	131507	2.101	ppbv	98
61)	Styrene	9.869	104	62748	2.119	ppbv	98
62)	Isopropylbenzene	10.539	105	196198	2.103	ppbv	100
63)	1,1,2,2-Tetrachloroethane	9.963	83	65089	1.978	ppbv	98
64)	n-propylbenzene	10.985	120	50569	2.074	ppbv	93
65)	tert-Butylbenzene	11.529	119	178218	2.147	ppbv	98
66)	Benzyl Chloride	11.613	91	18992	2.181	ppbv	98
67)	sec-Butylbenzene	11.765	105	249510	2.158	ppbv	100
69)	p-Isopropyltoluene	11.924	119	210808	2.158	ppbv	97
70)	n-Butylbenzene	12.280	91	206691	2.167	ppbv	100
71)	2-Chlorotoluene	10.898	91	147901	2.099	ppbv	100
72)	4-Ethyltoluene	11.124	105	164770	2.102	ppbv	99
73)	1,3,5-Trimethylbenzene	11.202	105	135344	2.128	ppbv	100
74)	1,2,4-Trimethylbenzene	11.536	105	150772	2.147	ppbv	98
75)	1,3-Dichlorobenzene	11.607	146	92487	2.124	ppbv	98
76)	1,4-Dichlorobenzene	11.671	146	92794	2.145	ppbv	99
77)	1,2-Dichlorobenzene	11.947	146	88825	2.144	ppbv	100
78)	Hexachloro-1,3-Butadiene	13.879	225	70481	2.175	ppbv	99
79)	Naphthalene	13.510	128	142653	2.297	ppbv	98
80)	Naphthalene,2-methyl-	14.458	142	41369	2.157	ppbv	98
81)	1,2,4-Trichlorobenzene	13.439	180	75139	2.263	ppbv	99

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

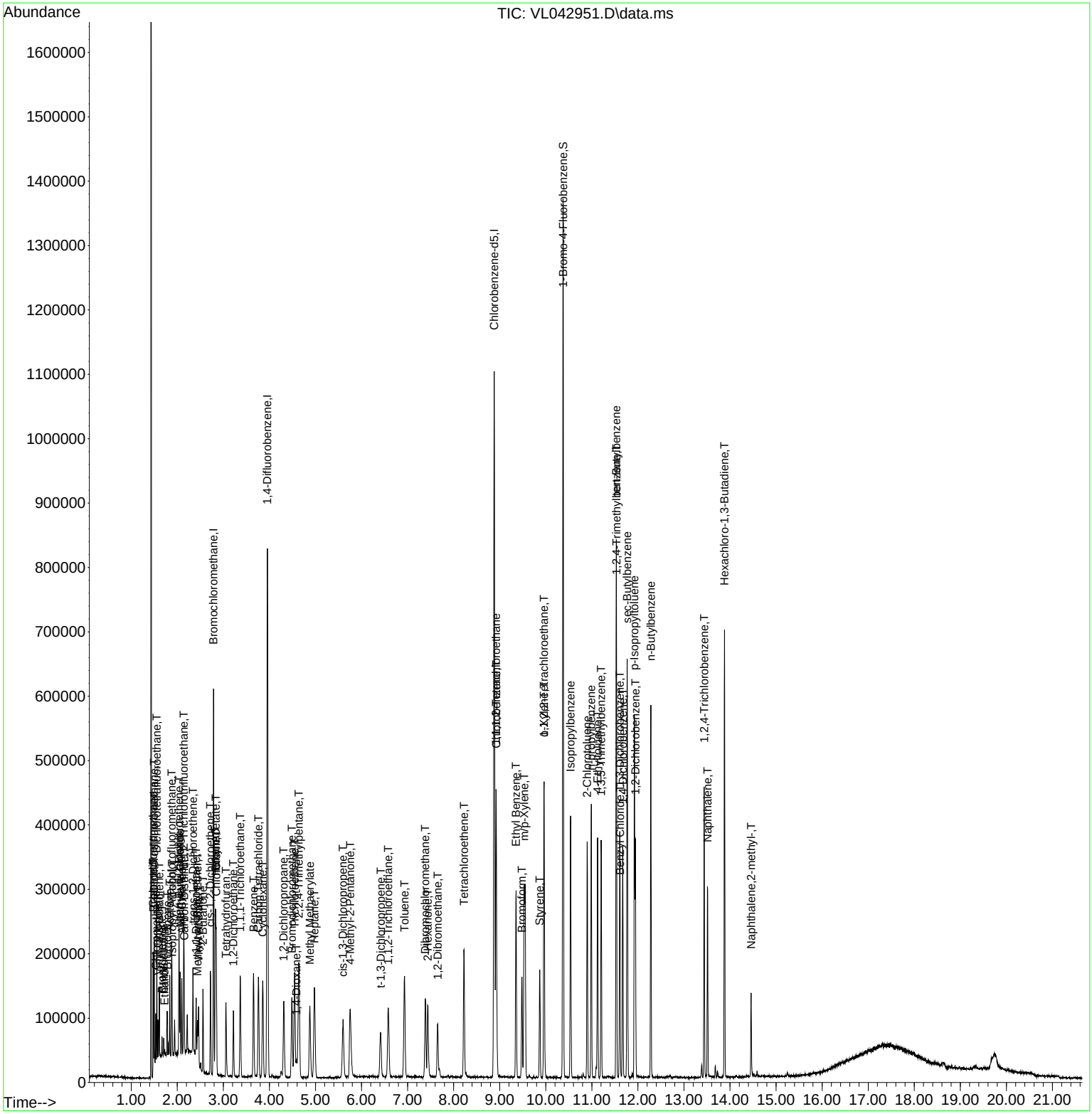
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042951.D
Acq On : 22 Sep 2025 10:14
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042952.D
Acq On : 22 Sep 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	162797	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	511767	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	469265	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	348878	9.960	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	23644	1.080	ppbv	97
3) Chlorodifluoromethane	1.476	51	29646	1.086	ppbv	99
4) Chloromethane	1.531	50	10120	1.021	ppbv	97
5) Vinyl Chloride	1.580	62	9228	1.030	ppbv	99
6) Bromomethane	1.667	94	3493	1.105	ppbv	96
7) Chloroethane	1.703	64	3872	1.113	ppbv #	81
8) Dichlorotetrafluoroethane	1.554	85	20172	1.079	ppbv	97
9) Propene	1.482	41	12808	1.079	ppbv	92
10) Heptane	4.972	43	33540m	1.053	ppbv	
11) Trichlorofluoromethane	1.874	101	22397	1.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	18180	1.063	ppbv	99
13) Ethanol	1.719	45	1463	1.286	ppbv #	33
14) Bromoethene	1.780	108	6783	1.049	ppbv #	87
15) Acetone	1.832	43	25273	1.192	ppbv	99
16) 1,3-Butadiene	1.609	39	10993	1.099	ppbv	88
17) tert-Butyl alcohol	2.039	59	25141	1.081	ppbv #	88
18) 1,1-Dichloroethene	2.033	96	8192	1.035	ppbv	96
19) Isopropyl Alcohol	1.884	45	13241	1.039	ppbv #	41
20) Methylene Chloride	2.059	84	10045	0.985	ppbv	97
21) Allyl Chloride	2.094	41	15801	1.070	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	9960	1.108	ppbv	96
23) Vinyl Acetate	2.457	43	30884	1.020	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	19077	1.082	ppbv	99
25) Ethyl Acetate	2.832	43	56877	1.061	ppbv	97
26) Hexane	2.822	57	26276	1.076	ppbv	96
27) Carbon Disulfide	2.149	76	23373	1.067	ppbv #	32
28) Methyl tert-Butyl Ether	2.441	73	12580	0.991	ppbv #	86
29) Chloroform	2.842	83	33240	1.041	ppbv	99
30) Cyclohexane	3.855	84	21707	1.063	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	23828	1.041	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	35233	1.018	ppbv	97
34) 2-Butanone	2.554	43	37431	1.044	ppbv	97
35) Carbon Tetrachloride	3.758	117	34016	1.033	ppbv	96
36) Benzene	3.651	78	49652	1.033	ppbv	100
37) 1,2-Dichloroethane	3.214	62	26482	1.048	ppbv	98
38) Trichloroethene	4.538	130	23906	1.001	ppbv	98
39) 1,2-Dichloropropane	4.311	63	18493m	1.053	ppbv	
40) 1,4-Dioxane	4.583	88	8804m	1.080	ppbv	
41) Tetrahydrofuran	3.055	42	20845	1.011	ppbv	98
42) Bromodichloromethane	4.480	83	35768m	1.016	ppbv	
43) Methyl Methacrylate	4.871	69	20289	1.040	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	84970	1.023	ppbv	96
45) t-1,3-Dichloropropene	6.402	75	21210m	1.011	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042952.D
Acq On : 22 Sep 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.587	75	27025m	1.011	ppbv		
47)	1,1,2-Trichloroethane	6.574	97	19311	1.041	ppbv		96
48)	Dibromochloromethane	7.383	129	30015	1.012	ppbv		99
49)	Bromoform	9.477	173	25929	1.005	ppbv		98
50)	4-Methyl-2-Pentanone	5.748	43	48546	1.007	ppbv		98
51)	2-Hexanone	7.431	43	39627	1.034	ppbv	#	99
52)	Tetrachloroethene	8.218	164	18188	0.978	ppbv		97
53)	Toluene	6.926	91	58200	1.023	ppbv		100
54)	1,2-Dibromoethane	7.645	107	26608	1.020	ppbv		94
56)	1,1,1,2-Tetrachloroethane	8.920	131	22802	1.015	ppbv		94
57)	Chlorobenzene	8.914	112	45873	1.071	ppbv		98
58)	Ethyl Benzene	9.351	91	80473	1.044	ppbv		97
59)	m/p-Xylene	9.529	91	128139m	2.108	ppbv		
60)	o-Xylene	9.959	91	64703	1.066	ppbv		99
61)	Styrene	9.869	104	29061	1.012	ppbv		98
62)	Isopropylbenzene	10.535	105	96621	1.068	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.959	83	31695	0.993	ppbv		96
64)	n-propylbenzene	10.985	120	24820	1.049	ppbv		98
65)	tert-Butylbenzene	11.526	119	86303	1.072	ppbv		99
66)	Benzyl Chloride	11.610	91	8140	0.964	ppbv		100
67)	sec-Butylbenzene	11.762	105	120070	1.070	ppbv		100
69)	p-Isopropyltoluene	11.921	119	101749	1.074	ppbv		99
70)	n-Butylbenzene	12.277	91	98908	1.069	ppbv		99
71)	2-Chlorotoluene	10.895	91	70577	1.033	ppbv		98
72)	4-Ethyltoluene	11.121	105	79095	1.040	ppbv		99
73)	1,3,5-Trimethylbenzene	11.199	105	63174	1.024	ppbv		98
74)	1,2,4-Trimethylbenzene	11.532	105	71411	1.049	ppbv		95
75)	1,3-Dichlorobenzene	11.603	146	44769	1.060	ppbv		99
76)	1,4-Dichlorobenzene	11.668	146	42879	1.022	ppbv		97
77)	1,2-Dichlorobenzene	11.940	146	42911	1.068	ppbv		98
78)	Hexachloro-1,3-Butadiene	13.879	225	34798	1.107	ppbv		99
79)	Naphthalene	13.510	128	61925	1.028	ppbv		98
80)	Naphthalene,2-methyl-	14.455	142	17116	0.920	ppbv		97
81)	1,2,4-Trichlorobenzene	13.435	180	32411	1.007	ppbv		97

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

Quantitation Report (QT Reviewed)

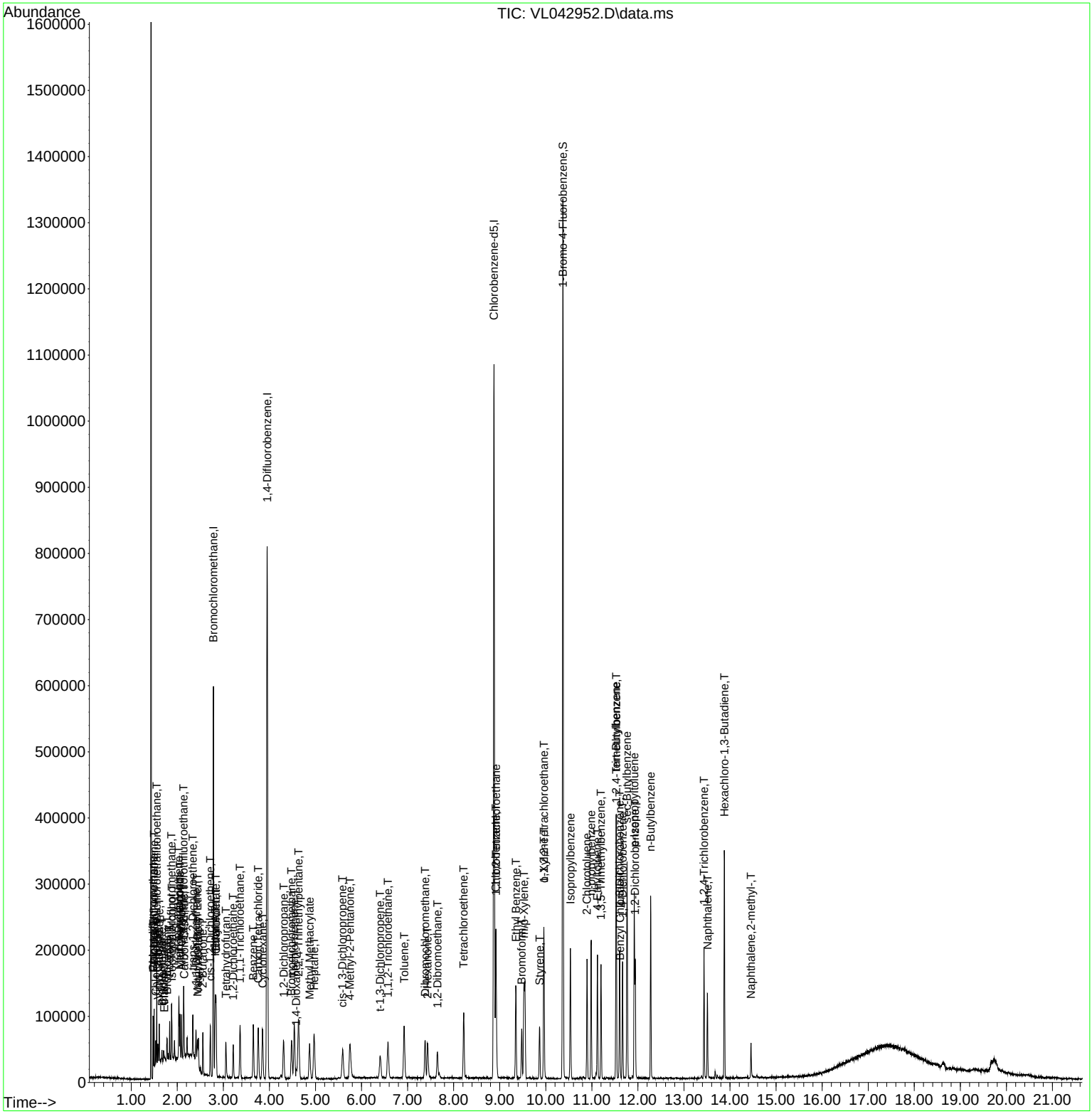
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042952.D
Acq On : 22 Sep 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:11:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	165435	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	509306	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	464091	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	347374	10.027	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11508	0.517	ppbv	96
3) Chlorodifluoromethane	1.476	51	14744	0.532	ppbv #	90
4) Chloromethane	1.534	50	5729	0.569	ppbv	97
5) Vinyl Chloride	1.580	62	4373	0.480	ppbv	93
6) Bromomethane	1.667	94	1850	0.576	ppbv	100
7) Chloroethane	1.703	64	1936	0.548	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	10149	0.534	ppbv	96
9) Propene	1.483	41	6482	0.537	ppbv	94
10) Heptane	4.978	43	17388m	0.537	ppbv	
11) Trichlorofluoromethane	1.877	101	11200	0.522	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	9346	0.538	ppbv	100
13) Ethanol	1.719	45	629m	0.544	ppbv	
14) Bromoethene	1.784	108	3553	0.541	ppbv #	84
15) Acetone	1.835	43	12326	0.572	ppbv #	86
16) 1,3-Butadiene	1.609	39	6215	0.611	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13128	0.555	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4543	0.565	ppbv	93
19) Isopropyl Alcohol	1.887	45	7431	0.574	ppbv #	46
20) Methylene Chloride	2.062	84	6881	0.430	ppbv	87
21) Allyl Chloride	2.098	41	7481	0.499	ppbv #	69
22) trans-1,2-Dichloroethene	2.337	96	4869m	0.533	ppbv	
23) Vinyl Acetate	2.460	43	18264	0.593	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9484	0.529	ppbv #	98
25) Ethyl Acetate	2.836	43	28162	0.517	ppbv #	95
26) Hexane	2.823	57	13406	0.540	ppbv	98
27) Carbon Disulfide	2.149	76	11535	0.518	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	7886	0.611	ppbv #	65
29) Chloroform	2.845	83	17188	0.530	ppbv	100
30) Cyclohexane	3.855	84	10856	0.523	ppbv	93
31) cis-1,2-Dichloroethene	2.719	61	11939	0.513	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	16684	0.474	ppbv	96
34) 2-Butanone	2.557	43	18948	0.531	ppbv	96
35) Carbon Tetrachloride	3.761	117	16799	0.513	ppbv	94
36) Benzene	3.654	78	24807	0.519	ppbv #	95
37) 1,2-Dichloroethane	3.217	62	12788	0.508	ppbv	100
38) Trichloroethene	4.544	130	12243	0.515	ppbv #	88
39) 1,2-Dichloropropane	4.315	63	8772	0.502	ppbv #	86
40) 1,4-Dioxane	4.599	88	4405m	0.543	ppbv	
41) Tetrahydrofuran	3.059	42	10871	0.530	ppbv	95
42) Bromodichloromethane	4.486	83	17552	0.501	ppbv	96
43) Methyl Methacrylate	4.881	69	10330m	0.532	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	43414m	0.525	ppbv	
45) t-1,3-Dichloropropene	6.409	75	10262m	0.492	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:11:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.593	75	13304m	0.500	ppbv		
47)	1,1,2-Trichloroethane	6.580	97	9725m	0.527	ppbv		
48)	Dibromochloromethane	7.383	129	14563	0.493	ppbv		99
49)	Bromoform	9.480	173	12136	0.473	ppbv		97
50)	4-Methyl-2-Pentanone	5.761	43	23639	0.493	ppbv		95
51)	2-Hexanone	7.441	43	18322	0.480	ppbv	#	97
52)	Tetrachloroethene	8.218	164	9073m	0.490	ppbv		
53)	Toluene	6.927	91	29404	0.519	ppbv		99
54)	1,2-Dibromoethane	7.648	107	13233	0.510	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.924	131	11535	0.519	ppbv	#	1
57)	Chlorobenzene	8.920	112	22463	0.530	ppbv		91
58)	Ethyl Benzene	9.351	91	38459	0.505	ppbv		96
59)	m/p-Xylene	9.545	91	61801m	1.028	ppbv		
60)	o-Xylene	9.959	91	30976	0.516	ppbv		98
61)	Styrene	9.865	104	14048	0.495	ppbv		98
62)	Isopropylbenzene	10.535	105	46640	0.521	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.959	83	15974	0.506	ppbv		97
64)	n-propylbenzene	10.985	120	12333	0.527	ppbv		100
65)	tert-Butylbenzene	11.529	119	42595	0.535	ppbv		99
66)	Benzyl Chloride	11.613	91	3942m	0.472	ppbv		
67)	sec-Butylbenzene	11.765	105	58190	0.525	ppbv		99
69)	p-Isopropyltoluene	11.924	119	48855	0.521	ppbv		100
70)	n-Butylbenzene	12.280	91	44764	0.489	ppbv		100
71)	2-Chlorotoluene	10.898	91	35797	0.530	ppbv		96
72)	4-Ethyltoluene	11.125	105	39803	0.529	ppbv		99
73)	1,3,5-Trimethylbenzene	11.202	105	30932	0.507	ppbv		96
74)	1,2,4-Trimethylbenzene	11.532	105	35601	0.529	ppbv		97
75)	1,3-Dichlorobenzene	11.607	146	21307	0.510	ppbv		98
76)	1,4-Dichlorobenzene	11.668	146	21404	0.516	ppbv		98
77)	1,2-Dichlorobenzene	11.943	146	20279	0.510	ppbv		95
78)	Hexachloro-1,3-Butadiene	13.879	225	17515	0.563	ppbv		98
79)	Naphthalene	13.510	128	25577	0.429	ppbv		97
80)	Naphthalene,2-methyl-	14.458	142	8906	0.484	ppbv		92
81)	1,2,4-Trichlorobenzene	13.439	180	12920	0.406	ppbv		98

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

Quantitation Report (QT Reviewed)

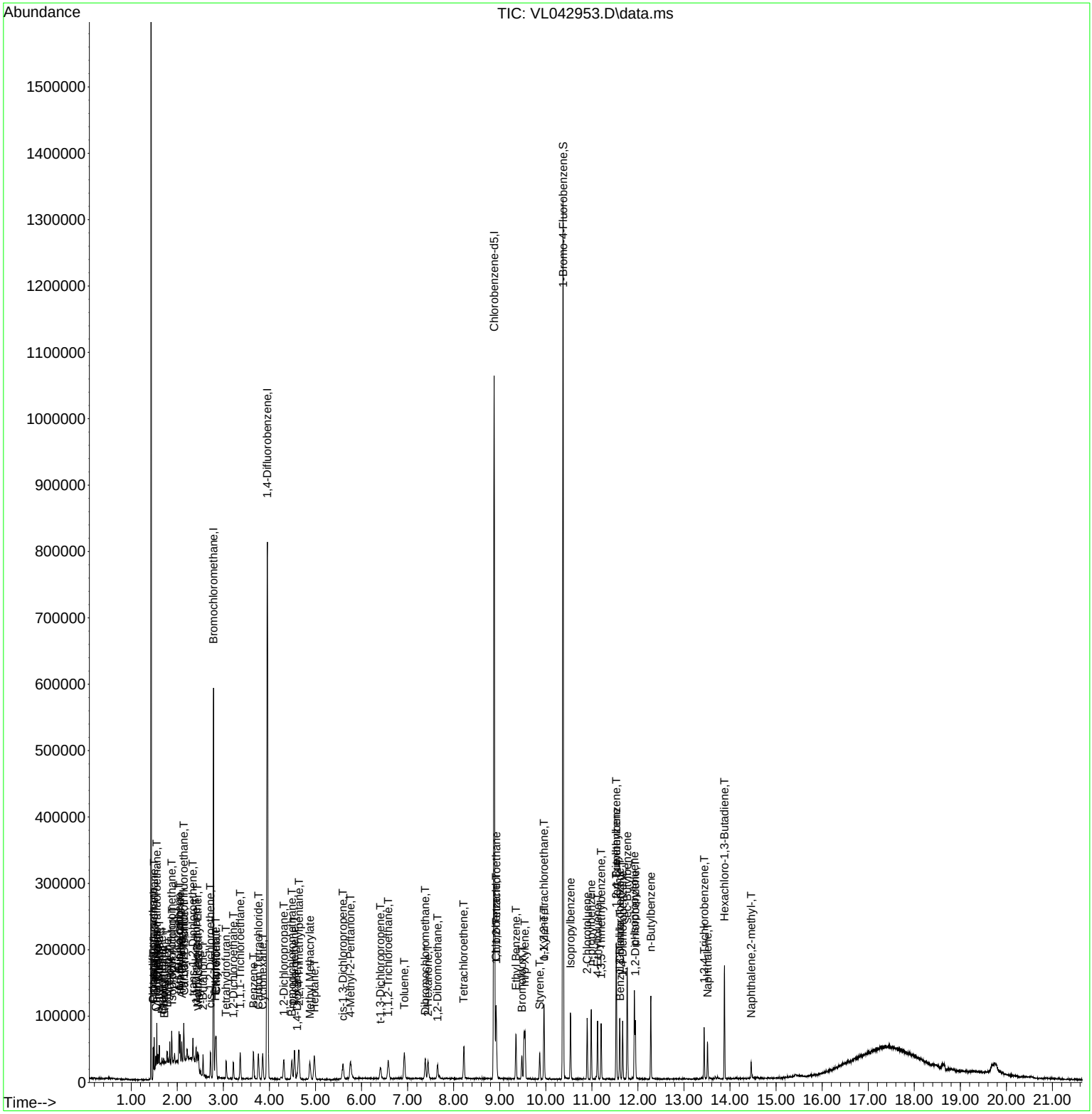
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:11:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	163771	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	498673	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	457171	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337196	9.881	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	920	0.102	ppbv #	75
32) 1,1,1-Trichloroethane	3.370	97	3418	0.098	ppbv	96
35) Carbon Tetrachloride	3.764	117	3071m	0.096	ppbv	
38) Trichloroethene	4.541	130	2470m	0.106	ppbv	
52) Tetrachloroethene	8.228	164	2013m	0.111	ppbv	
54) 1,2-Dibromoethane	7.655	107	2595m	0.102	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3301	0.106	ppbv	97
79) Naphthalene	13.516	128	4997m	0.085	ppbv	

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

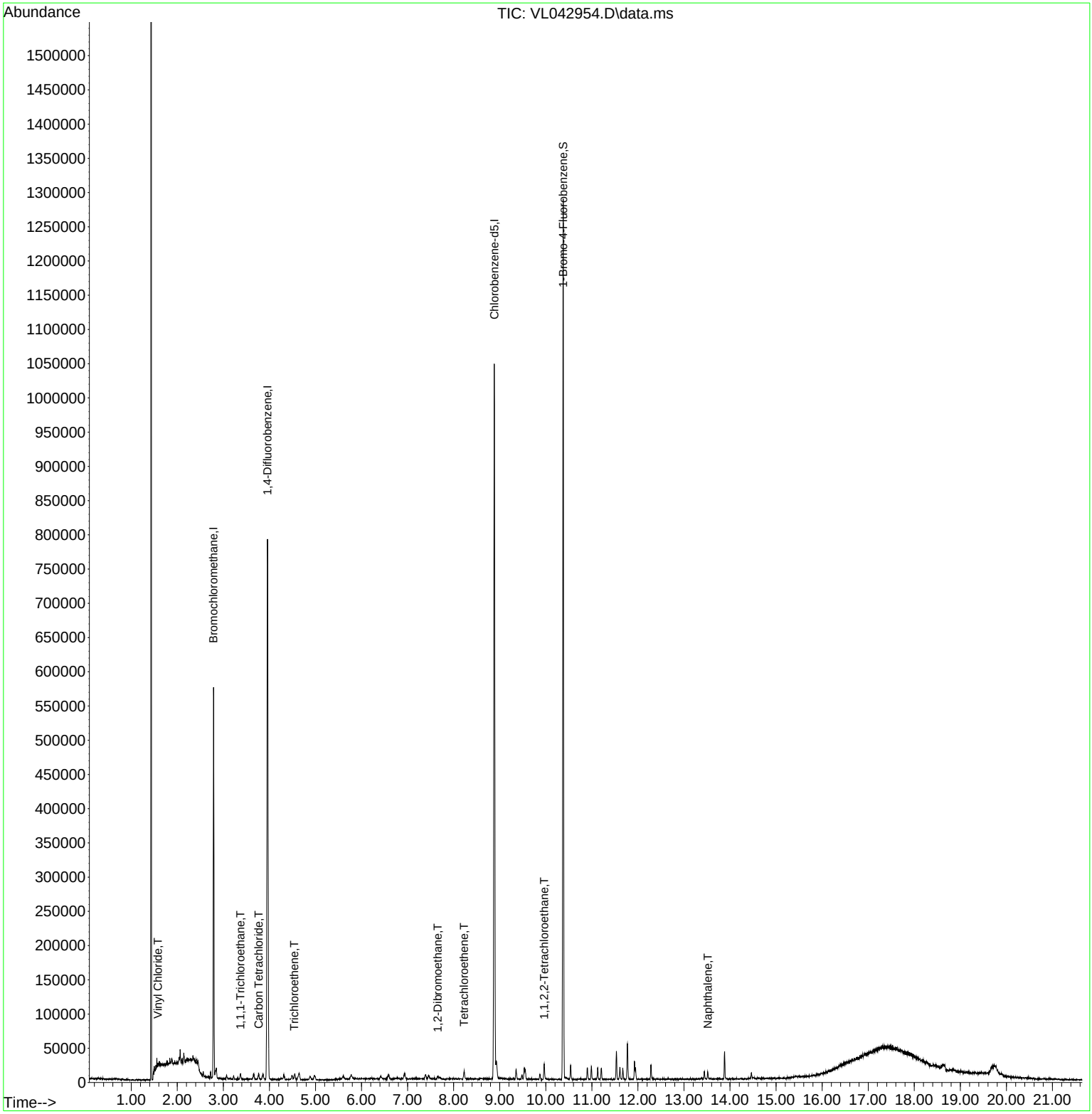
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042955.D
Acq On : 22 Sep 2025 12:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	163615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	504423	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	454013	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	334002	9.855	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	358	0.040	ppbv	# 53
32) 1,1,1-Trichloroethane	3.373	97	1337m	0.038	ppbv	
35) Carbon Tetrachloride	3.761	117	1110m	0.034	ppbv	
38) Trichloroethene	4.551	130	797m	0.034	ppbv	
52) Tetrachloroethene	8.231	164	660m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1098m	0.036	ppbv	

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

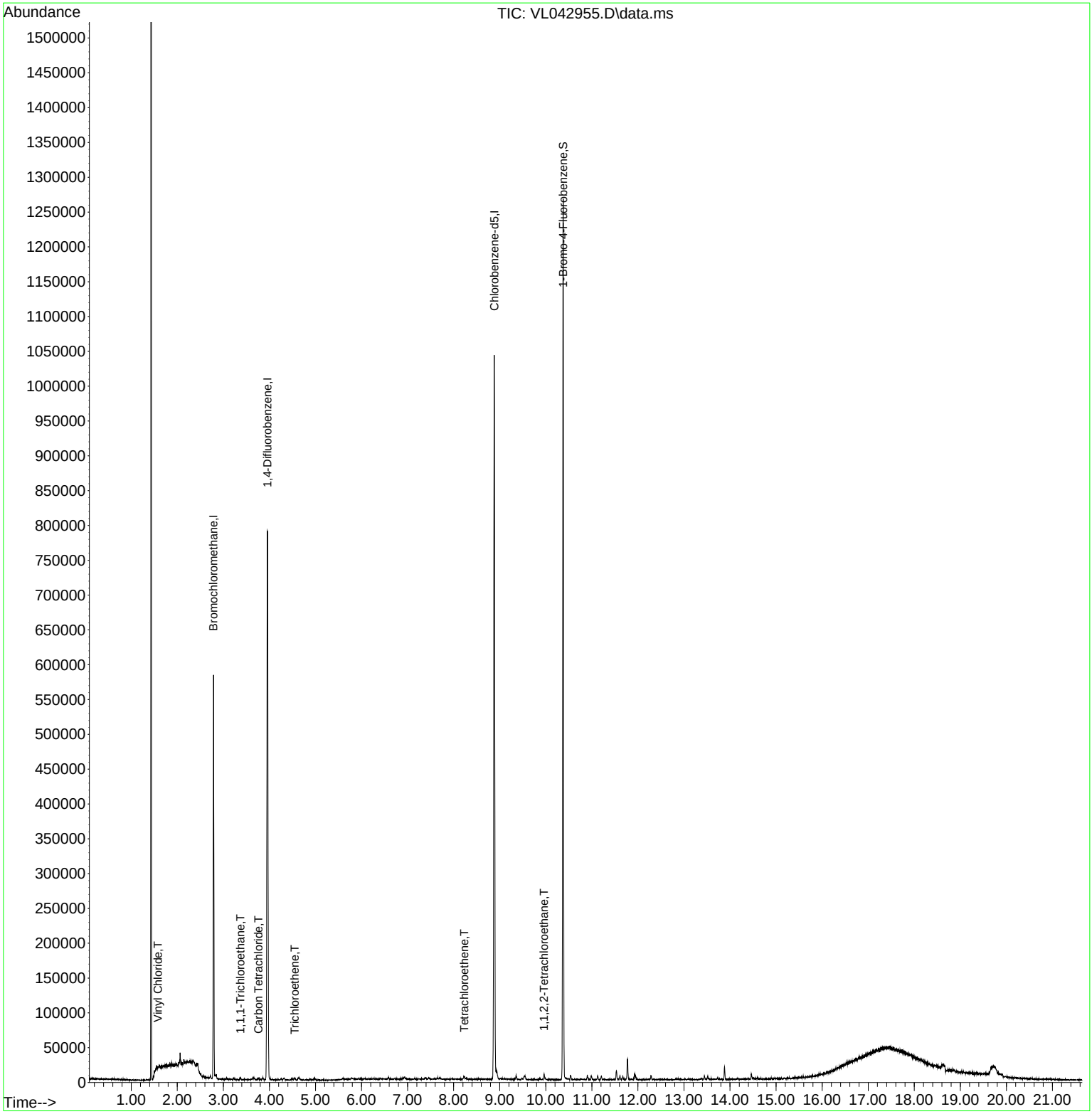
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042955.D
Acq On : 22 Sep 2025 12:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042956.D
Acq On : 22 Sep 2025 13:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	162846	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	494779	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	458256	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	343752	10.049	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	300946	13.740	ppbv	97
3) Chlorodifluoromethane	1.476	51	364959	13.369	ppbv	100
4) Chloromethane	1.534	50	133240	13.439	ppbv	99
5) Vinyl Chloride	1.583	62	115257	12.860	ppbv	100
6) Bromomethane	1.670	94	40861	12.925	ppbv	94
7) Chloroethane	1.706	64	46081	13.241	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	255815	13.682	ppbv	98
9) Propene	1.486	41	154069	12.973	ppbv	94
10) Heptane	4.985	43	424500	13.327	ppbv	98
11) Trichlorofluoromethane	1.881	101	295479	13.991	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	237615	13.894	ppbv	99
13) Ethanol	1.722	45	11502	10.105	ppbv	99
14) Bromoethene	1.784	108	88375	13.668	ppbv	100
15) Acetone	1.835	43	244861	11.545	ppbv	97
16) 1,3-Butadiene	1.612	39	126670	12.661	ppbv	97
17) tert-Butyl alcohol	2.039	59	308347	13.255	ppbv	99
18) 1,1-Dichloroethene	2.036	96	109211	13.796	ppbv	99
19) Isopropyl Alcohol	1.887	45	162952	12.780	ppbv	100
20) Methylene Chloride	2.062	84	92708	14.996	ppbv	95
21) Allyl Chloride	2.098	41	204552	13.848	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	121815	13.542	ppbv	98
23) Vinyl Acetate	2.463	43	419251	13.837	ppbv	99
24) 1,1-Dichloroethane	2.411	63	243229	13.789	ppbv	99
25) Ethyl Acetate	2.835	43	724418	13.514	ppbv	99
26) Hexane	2.829	57	321710	13.166	ppbv	99
27) Carbon Disulfide	2.153	76	300931	13.731	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	193915	15.267	ppbv	94
29) Chloroform	2.852	83	440772	13.796	ppbv	98
30) Cyclohexane	3.858	84	281932	13.800	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	317456	13.869	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	456335	13.178	ppbv	99
34) 2-Butanone	2.557	43	469872	13.551	ppbv	99
35) Carbon Tetrachloride	3.764	117	457985	14.385	ppbv	97
36) Benzene	3.658	78	654205	14.080	ppbv	99
37) 1,2-Dichloroethane	3.221	62	350841	14.358	ppbv	100
38) Trichloroethene	4.548	130	310602	13.450	ppbv	97
39) 1,2-Dichloropropane	4.315	63	241323	14.218	ppbv	95
40) 1,4-Dioxane	4.580	88	104884	13.306	ppbv #	98
41) Tetrahydrofuran	3.052	42	276157	13.855	ppbv	99
42) Bromodichloromethane	4.489	83	495091	14.544	ppbv	98
43) Methyl Methacrylate	4.881	69	263659	13.979	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	1107180	13.791	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	298019	14.694	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042956.D
Acq On : 22 Sep 2025 13:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	371770	14.389	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	249453	13.909	ppbv	96
48) Dibromochloromethane	7.389	129	421755	14.709	ppbv	99
49) Bromoform	9.487	173	367120	14.719	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	666049	14.293	ppbv	100
51) 2-Hexanone	7.435	43	541611	14.620	ppbv	100
52) Tetrachloroethene	8.228	164	233980	13.015	ppbv	99
53) Toluene	6.936	91	765216	13.915	ppbv	98
54) 1,2-Dibromoethane	7.652	107	359750	14.261	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	306952	13.994	ppbv	99
57) Chlorobenzene	8.924	112	565065	13.507	ppbv	98
58) Ethyl Benzene	9.357	91	1052303	13.985	ppbv	99
59) m/p-Xylene	9.555	91	1636030m	27.557	ppbv	
60) o-Xylene	9.966	91	808098	13.629	ppbv	100
61) Styrene	9.872	104	401899	14.330	ppbv	99
62) Isopropylbenzene	10.542	105	1198767	13.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	403038	12.932	ppbv	100
64) n-propylbenzene	10.992	120	318541	13.793	ppbv	97
65) tert-Butylbenzene	11.532	119	1033382	13.146	ppbv	100
66) Benzyl Chloride	11.616	91	113549	13.767	ppbv	99
67) sec-Butylbenzene	11.769	105	1454158	13.276	ppbv	99
69) p-Isopropyltoluene	11.927	119	1228773	13.280	ppbv	100
70) n-Butylbenzene	12.283	91	1239042	13.716	ppbv	99
71) 2-Chlorotoluene	10.904	91	916456	13.733	ppbv	100
72) 4-Ethyltoluene	11.128	105	1014567	13.662	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	845958	14.046	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	889339	13.372	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	568597	13.785	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	570104	13.916	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	536286	13.665	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	377435	12.296	ppbv	99
79) Naphthalene	13.513	128	920123	15.645	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	277792	15.290	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	473767	15.066	ppbv	99

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

Quantitation Report (QT Reviewed)

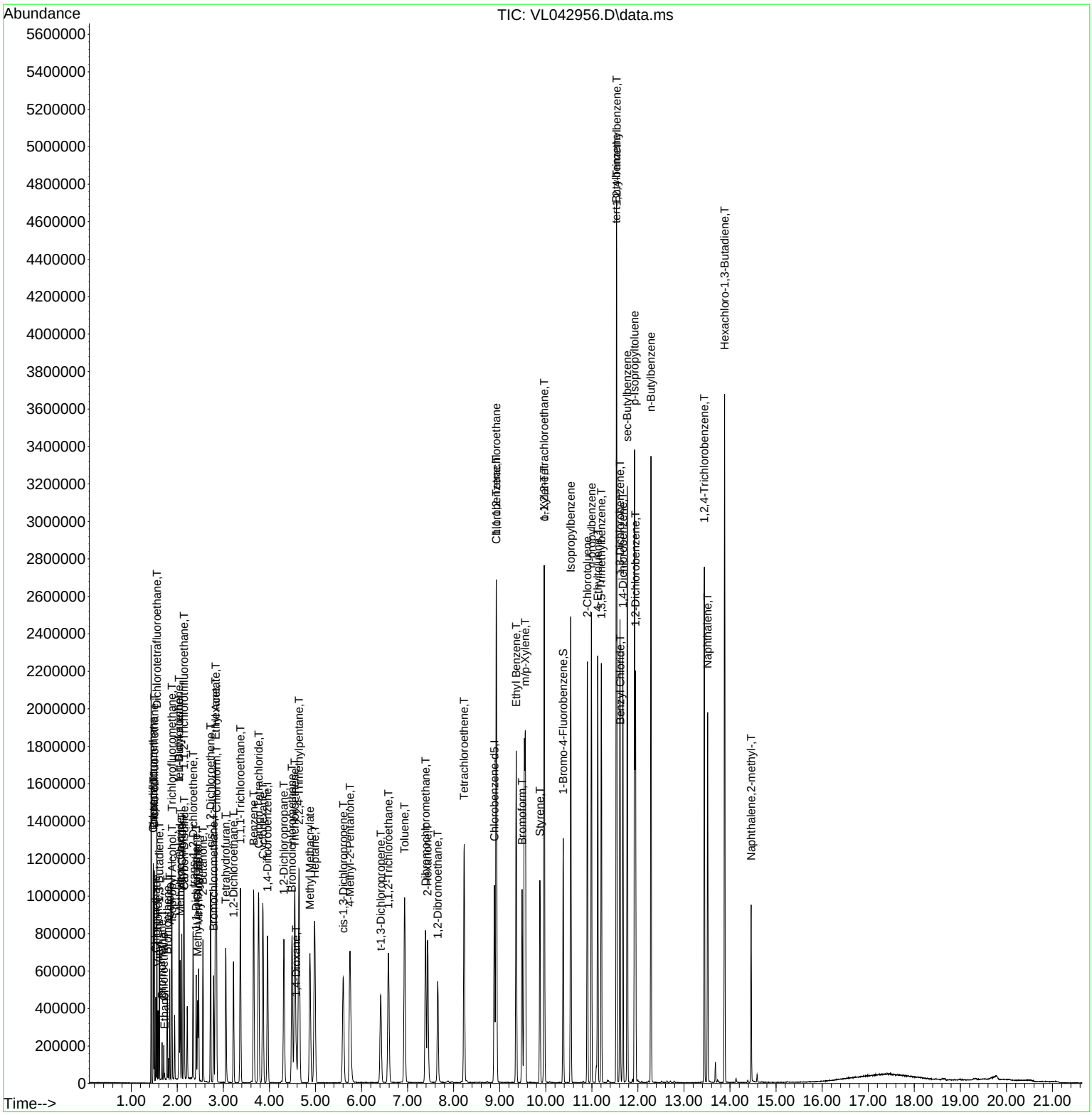
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042956.D
Acq On : 22 Sep 2025 13:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	159826	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	493072	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	450930	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	338071	10.043	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197861	9.204	ppbv	98
3) Chlorodifluoromethane	1.476	51	246838	9.213	ppbv	99
4) Chloromethane	1.535	50	85932	8.831	ppbv	100
5) Vinyl Chloride	1.580	62	74819	8.506	ppbv	98
6) Bromomethane	1.667	94	26463	8.529	ppbv	91
7) Chloroethane	1.706	64	30377	8.894	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	164255	8.951	ppbv	98
9) Propene	1.483	41	105822	9.079	ppbv	95
10) Heptane	4.982	43	284333	9.141	ppbv	99
11) Trichlorofluoromethane	1.878	101	189800	9.157	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	151398	9.020	ppbv	99
13) Ethanol	1.722	45	6606	5.842	ppbv	90
14) Bromoethene	1.781	108	55748	8.785	ppbv	98
15) Acetone	1.836	43	157306	7.557	ppbv	98
16) 1,3-Butadiene	1.609	39	80854	8.234	ppbv	98
17) tert-Butyl alcohol	2.040	59	206466	9.043	ppbv	100
18) 1,1-Dichloroethene	2.036	96	69181	8.904	ppbv	94
19) Isopropyl Alcohol	1.884	45	108171	8.644	ppbv	100
20) Methylene Chloride	2.062	84	61743	9.945	ppbv	98
21) Allyl Chloride	2.098	41	132878	9.166	ppbv	100
22) trans-1,2-Dichloroethene	2.341	96	78085	8.845	ppbv	98
23) Vinyl Acetate	2.464	43	280339	9.427	ppbv	99
24) 1,1-Dichloroethane	2.409	63	155861	9.003	ppbv	100
25) Ethyl Acetate	2.833	43	486993	9.256	ppbv	99
26) Hexane	2.826	57	216458	9.026	ppbv	99
27) Carbon Disulfide	2.150	76	196191	9.121	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	121564	9.752	ppbv	95
29) Chloroform	2.849	83	300507	9.583	ppbv	100
30) Cyclohexane	3.855	84	186186	9.286	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	213362	9.497	ppbv	99
32) 1,1,1-Trichloroethane	3.370	97	307237	9.071	ppbv	100
34) 2-Butanone	2.558	43	313801	9.081	ppbv	100
35) Carbon Tetrachloride	3.762	117	304293	9.479	ppbv	97
36) Benzene	3.655	78	435981	9.416	ppbv	98
37) 1,2-Dichloroethane	3.218	62	233305	9.581	ppbv	99
38) Trichloroethene	4.548	130	205431	8.927	ppbv	95
39) 1,2-Dichloropropane	4.312	63	160275	9.482	ppbv	95
40) 1,4-Dioxane	4.577	88	69659	8.863	ppbv #	95
41) Tetrahydrofuran	3.053	42	184258	9.277	ppbv	100
42) Bromodichloromethane	4.490	83	329680	9.721	ppbv	99
43) Methyl Methacrylate	4.878	69	172867	9.125	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	738876	9.239	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	188332	9.321	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	244367	9.490	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	165721	9.279	ppbv	97
48) Dibromochloromethane	7.387	129	278090	9.732	ppbv	99
49) Bromoform	9.484	173	238337	9.589	ppbv	99
50) 4-Methyl-2-Pentanone	5.746	43	435845	9.411	ppbv	99
51) 2-Hexanone	7.435	43	352962	9.561	ppbv	100
52) Tetrachloroethene	8.225	164	155469	8.678	ppbv	98
53) Toluene	6.933	91	509968	9.306	ppbv	99
54) 1,2-Dibromoethane	7.652	107	237604	9.452	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	205811	9.536	ppbv	99
57) Chlorobenzene	8.924	112	379110	9.209	ppbv	99
58) Ethyl Benzene	9.354	91	698086	9.428	ppbv	100
59) m/p-Xylene	9.552	91	1092496m	18.715	ppbv	
60) o-Xylene	9.966	91	538861	9.236	ppbv	99
61) Styrene	9.872	104	264257	9.575	ppbv	99
62) Isopropylbenzene	10.539	105	802723	9.230	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	272416	8.883	ppbv	100
64) n-propylbenzene	10.989	120	214374	9.433	ppbv	99
65) tert-Butylbenzene	11.533	119	711319	9.196	ppbv	99
66) Benzyl Chloride	11.617	91	71896	8.858	ppbv	99
67) sec-Butylbenzene	11.769	105	995407	9.235	ppbv	99
69) p-Isopropyltoluene	11.928	119	848196	9.316	ppbv	99
70) n-Butylbenzene	12.280	91	834882	9.392	ppbv	100
71) 2-Chlorotoluene	10.902	91	611697	9.315	ppbv	100
72) 4-Ethyltoluene	11.125	105	686229	9.391	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	567874	9.582	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	607159	9.277	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	380822	9.382	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	380109	9.429	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	359995	9.322	ppbv	100
78) Hexachloro-1,3-Butadiene	13.883	225	249142	8.248	ppbv	100
79) Naphthalene	13.514	128	590759	10.208	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	173023	9.678	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	304647	9.845	ppbv	98

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

Quantitation Report (QT Reviewed)

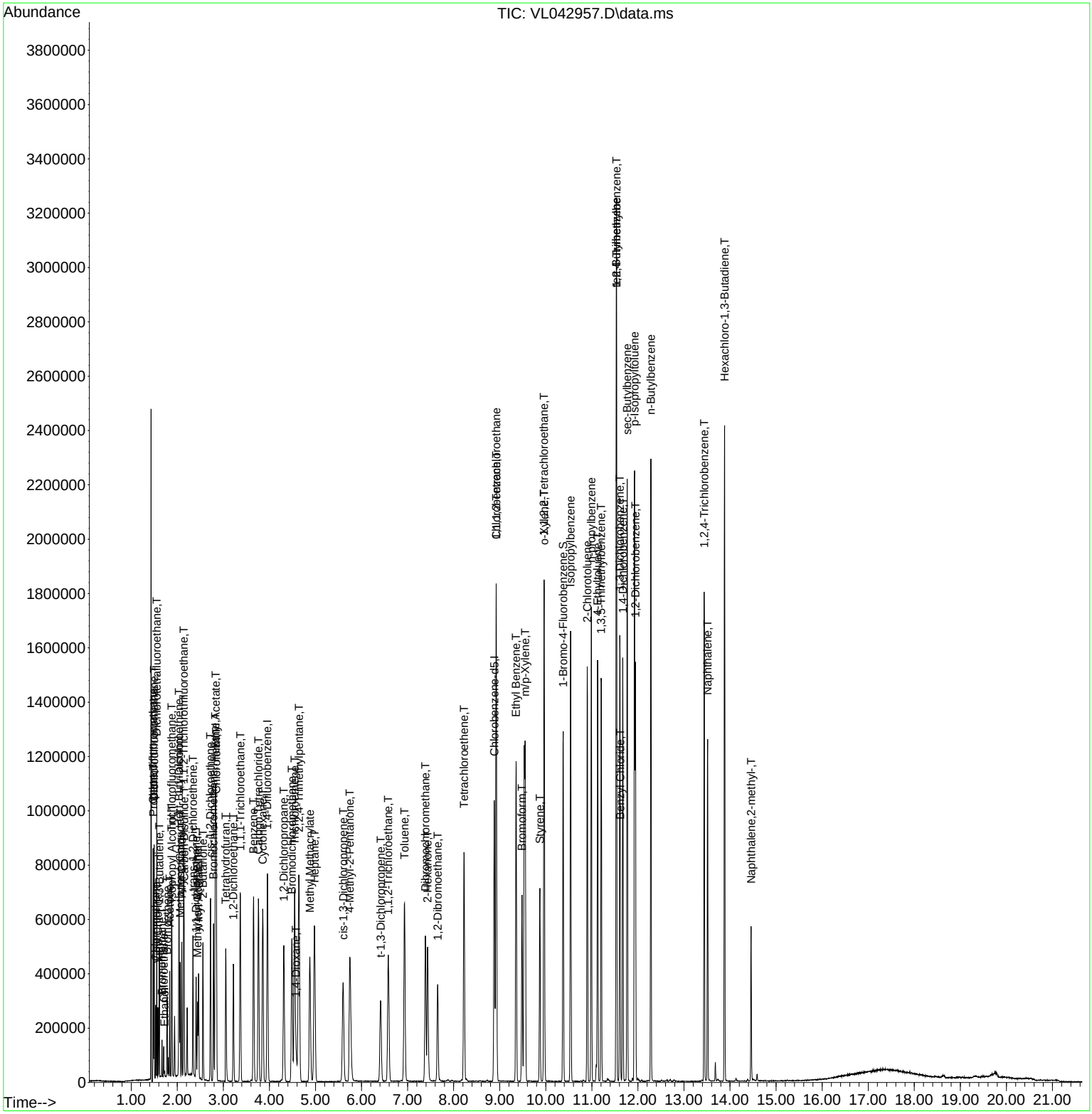
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	1.345	1.238	8.0	93	0.00
3		Chlorodifluoromethane	1.676	1.544	7.9	92	0.00
4		Chloromethane	0.609	0.538	11.7	90	0.00
5	T	Vinyl Chloride	0.550	0.468	14.9	93	0.00
6	T	Bromomethane	0.194	0.166	14.4	94	0.00
7		Chloroethane	0.214	0.190	11.2	91	0.00
8	T	Dichlorotetrafluoroethane	1.148	1.028	10.5	92	0.00
9	T	Propene	0.729	0.662	9.2	91	0.00
10	T	Heptane	1.946	1.779	8.6	89	0.01
11	T	Trichlorofluoromethane	1.297	1.188	8.4	93	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.050	0.947	9.8	92	0.00
13		Ethanol	0.071	0.041#	42.3#	73	0.00
14	T	Bromoethene	0.397	0.349	12.1	90	0.00
15	T	Acetone	1.302	0.984	24.4	93	0.00
16	T	1,3-Butadiene	0.614	0.506	17.6	91	0.00
17		tert-Butyl alcohol	1.429	1.292	9.6	89	0.00
18	T	1,1-Dichloroethene	0.486	0.433	10.9	91	0.00
19	T	Isopropyl Alcohol	0.783	0.677	13.5	88	0.00
20	T	Methylene Chloride	0.545	0.386	29.2	93	0.00
21	T	Allyl Chloride	0.907	0.831	8.4	91	0.00
22	T	trans-1,2-Dichloroethene	0.552	0.489	11.4	90	0.00
23	T	Vinyl Acetate	1.861	1.754	5.7	103	0.00
24	T	1,1-Dichloroethane	1.083	0.975	10.0	92	0.00
25	T	Ethyl Acetate	3.292	3.047	7.4	90	0.00
26	T	Hexane	1.501	1.354	9.8	91	0.00
27	T	Carbon Disulfide	1.346	1.228	8.8	90	0.00
28	T	Methyl tert-Butyl Ether	0.780	0.761	2.4	112	0.00
29	T	Chloroform	1.962	1.880	4.2	95	0.00
30	T	Cyclohexane	1.255	1.165	7.2	91	0.00
31	T	cis-1,2-Dichloroethene	1.406	1.335	5.0	92	0.00
32	T	1,1,1-Trichloroethane	2.119	1.922	9.3	95	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
34	T	2-Butanone	0.701	0.636	9.3	91	0.00
35	T	Carbon Tetrachloride	0.651	0.617	5.2	95	0.00
36	T	Benzene	0.939	0.884	5.9	92	0.00
37	T	1,2-Dichloroethane	0.494	0.473	4.3	94	0.00
38	T	Trichloroethene	0.467	0.417	10.7	91	0.00
39	T	1,2-Dichloropropane	0.343	0.325	5.2	93	0.00
40	T	1,4-Dioxane	0.159	0.141	11.3	89	0.00
41	T	Tetrahydrofuran	0.403	0.374	7.2	90	0.00
42	T	Bromodichloromethane	0.688	0.669	2.8	92	0.00
43		Methyl Methacrylate	0.384	0.351	8.6	89	0.00
44	T	2,2,4-Trimethylpentane	1.622	1.499	7.6	90	0.00
45	T	t-1,3-Dichloropropene	0.410	0.382	6.8	88	0.00
46	T	cis-1,3-Dichloropropene	0.522	0.496	5.0	89	0.01
47	T	1,1,2-Trichloroethane	0.362	0.336	7.2	91	0.00
48	T	Dibromochloromethane	0.580	0.564	2.8	93	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.504	0.483	4.2	89	0.00
50	T	4-Methyl-2-Pentanone	0.939	0.884	5.9	89	0.00
51	T	2-Hexanone	0.749	0.716	4.4	89	0.00
52	T	Tetrachloroethene	0.363	0.315	13.2	91	0.00
53	T	Toluene	1.111	1.034	6.9	90	0.00
54	T	1,2-Dibromoethane	0.510	0.482	5.5	92	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.479	0.456	4.8	92	0.00
57	T	Chlorobenzene	0.913	0.841	7.9	91	0.00
58	T	Ethyl Benzene	1.642	1.548	5.7	91	0.00
59	T	m/p-Xylene	1.295	1.211	6.5	92	0.03
60	T	o-Xylene	1.294	1.195	7.7	91	0.00
61	T	Styrene	0.612	0.586	4.2	90	0.00
62		Isopropylbenzene	1.929	1.780	7.7	91	0.00
63	T	1,1,2,2-Tetrachloroethane	0.680	0.604	11.2	92	0.00
64		n-propylbenzene	0.504	0.475	5.8	93	0.00
65		tert-Butylbenzene	1.715	1.577	8.0	94	0.00
66	T	Benzyl Chloride	0.180	0.159	11.7	76	0.00
67		sec-Butylbenzene	2.390	2.207	7.7	93	0.00
68	S	1-Bromo-4-Fluorobenzene	0.746	0.750	-0.5	91	0.00
69		p-Isopropyltoluene	2.019	1.881	6.8	94	0.00
70		n-Butylbenzene	1.971	1.851	6.1	91	0.00
71		2-Chlorotoluene	1.456	1.357	6.8	92	0.00
72	T	4-Ethyltoluene	1.621	1.522	6.1	93	0.00
73	T	1,3,5-Trimethylbenzene	1.314	1.259	4.2	92	0.00
74	T	1,2,4-Trimethylbenzene	1.451	1.346	7.2	92	0.00
75	T	1,3-Dichlorobenzene	0.900	0.845	6.1	93	0.00
76	T	1,4-Dichlorobenzene	0.894	0.843	5.7	92	0.00
77	T	1,2-Dichlorobenzene	0.856	0.798	6.8	93	0.00
78	T	Hexachloro-1,3-Butadiene	0.670	0.553	17.5	89	0.00
79	T	Naphthalene	1.283	1.310	-2.1	88	0.00
80	T	Naphthalene,2-methyl-	0.396	0.384	3.0	88	0.00
81	T	1,2,4-Trichlorobenzene	0.686	0.676	1.5	87	0.00

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

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	10.000	9.204	8.0	93	0.00
3		Chlorodifluoromethane	10.000	9.213	7.9	92	0.00
4		Chloromethane	10.000	8.831	11.7	90	0.00
5	T	Vinyl Chloride	10.000	8.506	14.9	93	0.00
6	T	Bromomethane	10.000	8.529	14.7	94	0.00
7		Chloroethane	10.000	8.894	11.1	91	0.00
8	T	Dichlorotetrafluoroethane	10.000	8.951	10.5	92	0.00
9	T	Propene	10.000	9.079	9.2	91	0.00
10	T	Heptane	10.000	9.141	8.6	89	0.01
11	T	Trichlorofluoromethane	10.000	9.157	8.4	93	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.020	9.8	92	0.00
13		Ethanol	10.000	5.842	41.6#	73	0.00
14	T	Bromoethene	10.000	8.785	12.1	90	0.00
15	T	Acetone	10.000	7.557	24.4	93	0.00
16	T	1,3-Butadiene	10.000	8.234	17.7	91	0.00
17		tert-Butyl alcohol	10.000	9.043	9.6	89	0.00
18	T	1,1-Dichloroethene	10.000	8.904	11.0	91	0.00
19	T	Isopropyl Alcohol	10.000	8.644	13.6	88	0.00
20	T	Methylene Chloride	10.000	9.945	0.5	93	0.00
21	T	Allyl Chloride	10.000	9.166	8.3	91	0.00
22	T	trans-1,2-Dichloroethene	10.000	8.845	11.5	90	0.00
23	T	Vinyl Acetate	10.000	9.427	5.7	103	0.00
24	T	1,1-Dichloroethane	10.000	9.003	10.0	92	0.00
25	T	Ethyl Acetate	10.000	9.256	7.4	90	0.00
26	T	Hexane	10.000	9.026	9.7	91	0.00
27	T	Carbon Disulfide	10.000	9.121	8.8	90	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.752	2.5	112	0.00
29	T	Chloroform	10.000	9.583	4.2	95	0.00
30	T	Cyclohexane	10.000	9.286	7.1	91	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.497	5.0	92	0.00
32	T	1,1,1-Trichloroethane	10.000	9.071	9.3	95	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.00
34	T	2-Butanone	10.000	9.081	9.2	91	0.00
35	T	Carbon Tetrachloride	10.000	9.479	5.2	95	0.00
36	T	Benzene	10.000	9.416	5.8	92	0.00
37	T	1,2-Dichloroethane	10.000	9.581	4.2	94	0.00
38	T	Trichloroethene	10.000	8.927	10.7	91	0.00
39	T	1,2-Dichloropropane	10.000	9.482	5.2	93	0.00
40	T	1,4-Dioxane	10.000	8.863	11.4	89	0.00
41	T	Tetrahydrofuran	10.000	9.277	7.2	90	0.00
42	T	Bromodichloromethane	10.000	9.721	2.8	92	0.00
43		Methyl Methacrylate	10.000	9.125	8.8	89	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.239	7.6	90	0.00
45	T	t-1,3-Dichloropropene	10.000	9.321	6.8	88	0.00
46	T	cis-1,3-Dichloropropene	10.000	9.490	5.1	89	0.01
47	T	1,1,2-Trichloroethane	10.000	9.279	7.2	91	0.00
48	T	Dibromochloromethane	10.000	9.732	2.7	93	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042957.D
Acq On : 22 Sep 2025 14:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL092225

Quant Time: Sep 23 02:49:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	9.589	4.1	89	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.411	5.9	89	0.00
51	T	2-Hexanone	10.000	9.561	4.4	89	0.00
52	T	Tetrachloroethene	10.000	8.678	13.2	91	0.00
53	T	Toluene	10.000	9.306	6.9	90	0.00
54	T	1,2-Dibromoethane	10.000	9.452	5.5	92	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.536	4.6	92	0.00
57	T	Chlorobenzene	10.000	9.209	7.9	91	0.00
58	T	Ethyl Benzene	10.000	9.428	5.7	91	0.00
59	T	m/p-Xylene	20.000	18.715	6.4	92	0.03
60	T	o-Xylene	10.000	9.236	7.6	91	0.00
61	T	Styrene	10.000	9.575	4.3	90	0.00
62		Isopropylbenzene	10.000	9.230	7.7	91	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	8.883	11.2	92	0.00
64		n-propylbenzene	10.000	9.433	5.7	93	0.00
65		tert-Butylbenzene	10.000	9.196	8.0	94	0.00
66	T	Benzyl Chloride	10.000	8.858	11.4	76	0.00
67		sec-Butylbenzene	10.000	9.235	7.7	93	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.043	-0.4	91	0.00
69		p-Isopropyltoluene	10.000	9.316	6.8	94	0.00
70		n-Butylbenzene	10.000	9.392	6.1	91	0.00
71		2-Chlorotoluene	10.000	9.315	6.9	92	0.00
72	T	4-Ethyltoluene	10.000	9.391	6.1	93	0.00
73	T	1,3,5-Trimethylbenzene	10.000	9.582	4.2	92	0.00
74	T	1,2,4-Trimethylbenzene	10.000	9.277	7.2	92	0.00
75	T	1,3-Dichlorobenzene	10.000	9.382	6.2	93	0.00
76	T	1,4-Dichlorobenzene	10.000	9.429	5.7	92	0.00
77	T	1,2-Dichlorobenzene	10.000	9.322	6.8	93	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.248	17.5	89	0.00
79	T	Naphthalene	10.000	10.208	-2.1	88	0.00
80	T	Naphthalene,2-methyl-	10.000	9.678	3.2	88	0.00
81	T	1,2,4-Trichlorobenzene	10.000	9.845	1.5	87	0.00

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: GFEL01

Lab Code: ACE | SDG No.: Q3154

Instrument ID: MSVOA_L | Calibration Date/Time: 09/24/2025 09:03

Lab File ID: VL043001.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:39 13:05

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.550	0.524		-4.73	30
Heptane	1.946	1.814		-6.78	30
1,1-Dichloroethane	1.083	1.121		3.51	30
Cyclohexane	1.255	1.207		-3.83	30
cis-1,2-Dichloroethene	1.406	1.378		-1.99	30
1,1,1-Trichloroethane	2.119	2.146		1.27	30
Benzene	0.939	0.951		1.28	30
Trichloroethene	0.467	0.486		4.07	30
Toluene	1.111	1.103		-0.72	30
Tetrachloroethene	0.363	0.390		7.44	30
Ethyl Benzene	1.642	1.688		2.8	30
o-Xylene	1.294	1.394		7.73	30
1,3,5-Trimethylbenzene	1.314	1.438		9.44	30
1,2,4-Trimethylbenzene	1.451	1.608		10.82	30
Naphthalene	1.283	1.509		17.61	30
1-Bromo-4-Fluorobenzene	0.746	0.772		3.48	30
Hexane	1.501	1.398		-6.86	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043001.D
Acq On : 24 Sep 2025 09:03
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Sep 25 01:50:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	149118	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	443016	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	402155	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	310628	10.347	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	218810	10.909	ppbv	97
3) Chlorodifluoromethane	1.476	51	253996	10.161	ppbv	97
4) Chloromethane	1.534	50	88250	9.721	ppbv	99
5) Vinyl Chloride	1.580	62	78198	9.528	ppbv	99
6) Bromomethane	1.670	94	29578	10.217	ppbv	97
7) Chloroethane	1.706	64	31093	9.757	ppbv	89
8) Dichlorotetrafluoroethane	1.554	85	181307	10.590	ppbv	92
9) Propene	1.486	41	92063	8.466	ppbv	95
10) Heptane	4.981	43	270509	9.321	ppbv	98
11) Trichlorofluoromethane	1.877	101	222394	11.500	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	176746	11.286	ppbv	90
13) Ethanol	1.722	45	6741	6.390	ppbv	98
14) Bromoethene	1.784	108	64377	10.873	ppbv	99
15) Acetone	1.835	43	163452	8.416	ppbv	97
16) 1,3-Butadiene	1.609	39	82946	9.054	ppbv	98
17) tert-Butyl alcohol	2.039	59	184718	8.671	ppbv	100
18) 1,1-Dichloroethene	2.036	96	76697	10.581	ppbv	94
19) Isopropyl Alcohol	1.887	45	107156	9.178	ppbv	98
20) Methylene Chloride	2.062	84	67323	11.743	ppbv	95
21) Allyl Chloride	2.098	41	131981	9.758	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	87807	10.660	ppbv	97
23) Vinyl Acetate	2.463	43	253068	9.121	ppbv	98
24) 1,1-Dichloroethane	2.411	63	167093	10.345	ppbv	97
25) Ethyl Acetate	2.835	43	473289	9.642	ppbv	99
26) Hexane	2.829	57	208408	9.314	ppbv	98
27) Carbon Disulfide	2.153	76	204123	10.171	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	114764	9.867	ppbv	93
29) Chloroform	2.848	83	326560	11.162	ppbv	98
30) Cyclohexane	3.858	84	179991	9.621	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	205449	9.802	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	320054	10.128	ppbv	99
34) 2-Butanone	2.557	43	307139	9.892	ppbv	99
35) Carbon Tetrachloride	3.764	117	346777	12.023	ppbv	97
36) Benzene	3.658	78	421500	10.132	ppbv	98
37) 1,2-Dichloroethane	3.217	62	244248	11.163	ppbv	98
38) Trichloroethene	4.551	130	215317	10.414	ppbv	97
39) 1,2-Dichloropropane	4.318	63	157562	10.375	ppbv	95
40) 1,4-Dioxane	4.580	88	67174	9.512	ppbv #	99
41) Tetrahydrofuran	3.056	42	168708	9.453	ppbv	100
42) Bromodichloromethane	4.493	83	346597	11.374	ppbv	96
43) Methyl Methacrylate	4.884	69	156524	9.196	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	718720	10.003	ppbv	98
45) t-1,3-Dichloropropene	6.418	75	166305	9.161	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043001.D
Acq On : 24 Sep 2025 09:03
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Sep 25 01:50:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	219958	9.507	ppbv		97
47) 1,1,2-Trichloroethane	6.583	97	171612	10.694	ppbv		94
48) Dibromochloromethane	7.393	129	301861	11.758	ppbv		100
49) Bromoform	9.487	173	277232	12.414	ppbv		98
50) 4-Methyl-2-Pentanone	5.748	43	411327	9.885	ppbv		98
51) 2-Hexanone	7.438	43	328162	9.893	ppbv	#	97
52) Tetrachloroethene	8.231	164	172805	10.736	ppbv		92
53) Toluene	6.936	91	488825	9.928	ppbv		99
54) 1,2-Dibromoethane	7.658	107	244249	10.814	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.927	131	227668	11.828	ppbv		99
57) Chlorobenzene	8.927	112	405460	11.044	ppbv		94
58) Ethyl Benzene	9.357	91	678909	10.281	ppbv		98
59) m/p-Xylene	9.555	91	1099527m	21.119	ppbv		
60) o-Xylene	9.966	91	560685	10.775	ppbv		100
61) Styrene	9.875	104	243153	9.879	ppbv		98
62) Isopropylbenzene	10.542	105	822171	10.600	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	292957	10.712	ppbv		100
64) n-propylbenzene	10.992	120	223909	11.048	ppbv		95
65) tert-Butylbenzene	11.532	119	756477	10.966	ppbv		97
66) Benzyl Chloride	11.616	91	45655	6.307	ppbv		99
67) sec-Butylbenzene	11.769	105	1040028	10.819	ppbv		99
69) p-Isopropyltoluene	11.927	119	901980	11.108	ppbv		99
70) n-Butylbenzene	12.283	91	875593	11.045	ppbv		99
71) 2-Chlorotoluene	10.904	91	612123	10.452	ppbv		98
72) 4-Ethyltoluene	11.128	105	699671	10.736	ppbv		100
73) 1,3,5-Trimethylbenzene	11.205	105	578371	10.943	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	646508	11.077	ppbv		98
75) 1,3-Dichlorobenzene	11.610	146	424219	11.719	ppbv		99
76) 1,4-Dichlorobenzene	11.672	146	422819	11.761	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	408711	11.867	ppbv		98
78) Hexachloro-1,3-Butadiene	13.882	225	345191	12.814	ppbv		100
79) Naphthalene	13.513	128	606829	11.757	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	153800	9.647	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	353451	12.808	ppbv		99

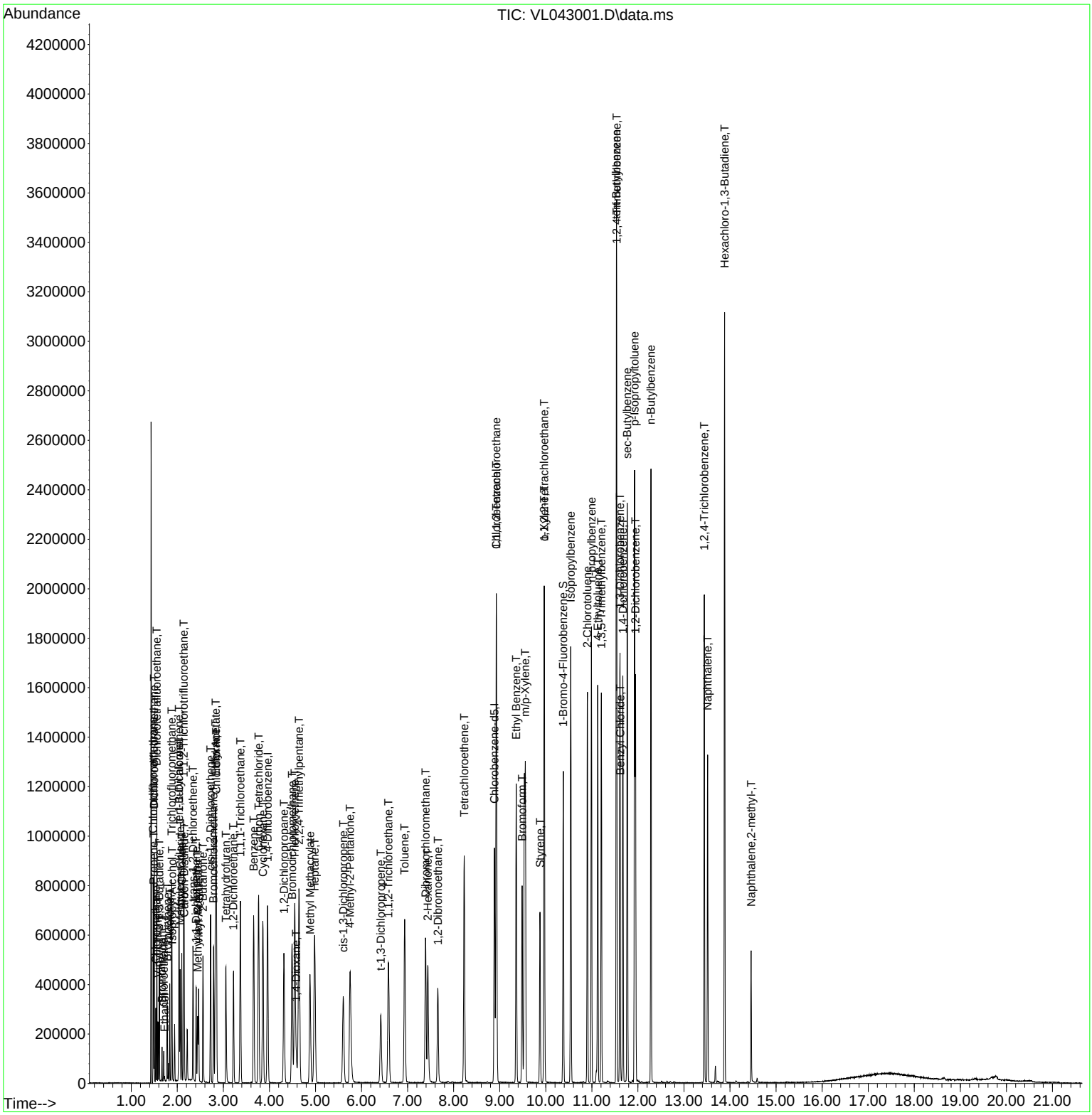
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043001.D
Acq On : 24 Sep 2025 09:03
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Sep 25 01:50:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043001.D
Acq On : 24 Sep 2025 09:03
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 25 01:50:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	87	0.00
2	T	Dichlorodifluoromethane	1.345	1.467	-9.1	103	0.00
3		Chlorodifluoromethane	1.676	1.703	-1.6	94	0.00
4		Chloromethane	0.609	0.592	2.8	92	0.00
5	T	Vinyl Chloride	0.550	0.524	4.7	97	0.00
6	T	Bromomethane	0.194	0.198	-2.1	105	0.00
7		Chloroethane	0.214	0.209	2.3	93	0.00
8	T	Dichlorotetrafluoroethane	1.148	1.216	-5.9	101	0.00
9	T	Propene	0.729	0.617	15.4	79	0.00
10	T	Heptane	1.946	1.814	6.8	85	0.01
11	T	Trichlorofluoromethane	1.297	1.491	-15.0	109	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.050	1.185	-12.9	107	0.00
13		Ethanol	0.071	0.045#	36.6#	74	0.00
14	T	Bromoethene	0.397	0.432	-8.8	104	0.00
15	T	Acetone	1.302	1.096	15.8	96	0.00
16	T	1,3-Butadiene	0.614	0.556	9.4	93	0.00
17		tert-Butyl alcohol	1.429	1.239	13.3	80	0.00
18	T	1,1-Dichloroethene	0.486	0.514	-5.8	101	0.00
19	T	Isopropyl Alcohol	0.783	0.719	8.2	87	0.00
20	T	Methylene Chloride	0.545	0.451	17.2	102	0.00
21	T	Allyl Chloride	0.907	0.885	2.4	90	0.00
22	T	trans-1,2-Dichloroethene	0.552	0.589	-6.7	101	0.00
23	T	Vinyl Acetate	1.861	1.697	8.8	93	0.00
24	T	1,1-Dichloroethane	1.083	1.121	-3.5	98	0.00
25	T	Ethyl Acetate	3.292	3.174	3.6	88	0.00
26	T	Hexane	1.501	1.398	6.9	87	0.00
27	T	Carbon Disulfide	1.346	1.369	-1.7	94	0.00
28	T	Methyl tert-Butyl Ether	0.780	0.770	1.3	105	0.00
29	T	Chloroform	1.962	2.190	-11.6	103	0.00
30	T	Cyclohexane	1.255	1.207	3.8	88	0.00
31	T	cis-1,2-Dichloroethene	1.406	1.378	2.0	89	0.00
32	T	1,1,1-Trichloroethane	2.119	2.146	-1.3	98	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
34	T	2-Butanone	0.701	0.693	1.1	89	0.00
35	T	Carbon Tetrachloride	0.651	0.783	-20.3	108	0.00
36	T	Benzene	0.939	0.951	-1.3	89	0.00
37	T	1,2-Dichloroethane	0.494	0.551	-11.5	99	0.00
38	T	Trichloroethene	0.467	0.486	-4.1	96	0.00
39	T	1,2-Dichloropropane	0.343	0.356	-3.8	92	0.01
40	T	1,4-Dioxane	0.159	0.152	4.4	86	0.00
41	T	Tetrahydrofuran	0.403	0.381	5.5	82	0.00
42	T	Bromodichloromethane	0.688	0.782	-13.7	97	0.01
43		Methyl Methacrylate	0.384	0.353	8.1	81	0.01
44	T	2,2,4-Trimethylpentane	1.622	1.622	0.0	87	0.00
45	T	t-1,3-Dichloropropene	0.410	0.375	8.5	77	0.01
46	T	cis-1,3-Dichloropropene	0.522	0.497	4.8	80	0.01
47	T	1,1,2-Trichloroethane	0.362	0.387	-6.9	95	0.01
48	T	Dibromochloromethane	0.580	0.681	-17.4	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043001.D
Acq On : 24 Sep 2025 09:03
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 25 01:50:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.504	0.626	-24.2	104	0.00
50	T	4-Methyl-2-Pentanone	0.939	0.928	1.2	84	0.01
51	T	2-Hexanone	0.749	0.741	1.1	83	0.00
52	T	Tetrachloroethene	0.363	0.390	-7.4	101	0.01
53	T	Toluene	1.111	1.103	0.7	86	0.01
54	T	1,2-Dibromoethane	0.510	0.551	-8.0	95	0.01
55	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
56		1,1,1,2-Tetrachloroethane	0.479	0.566	-18.2	102	0.00
57	T	Chlorobenzene	0.913	1.008	-10.4	98	0.00
58	T	Ethyl Benzene	1.642	1.688	-2.8	89	0.00
59	T	m/p-Xylene	1.295	1.367	-5.6	92	0.03
60	T	o-Xylene	1.294	1.394	-7.7	94	0.00
61	T	Styrene	0.612	0.605	1.1	83	0.00
62		Isopropylbenzene	1.929	2.044	-6.0	94	0.00
63	T	1,1,2,2-Tetrachloroethane	0.680	0.728	-7.1	99	0.00
64		n-propylbenzene	0.504	0.557	-10.5	97	0.00
65		tert-Butylbenzene	1.715	1.881	-9.7	100	0.00
66	T	Benzyl Chloride	0.180	0.114	36.7#	48	0.00
67		sec-Butylbenzene	2.390	2.586	-8.2	98	0.00
68	S	1-Bromo-4-Fluorobenzene	0.746	0.772	-3.5	84	0.00
69		p-Isopropyltoluene	2.019	2.243	-11.1	100	0.00
70		n-Butylbenzene	1.971	2.177	-10.5	96	0.00
71		2-Chlorotoluene	1.456	1.522	-4.5	92	0.00
72	T	4-Ethyltoluene	1.621	1.740	-7.3	94	0.00
73	T	1,3,5-Trimethylbenzene	1.314	1.438	-9.4	94	0.00
74	T	1,2,4-Trimethylbenzene	1.451	1.608	-10.8	98	0.00
75	T	1,3-Dichlorobenzene	0.900	1.055	-17.2	103	0.00
76	T	1,4-Dichlorobenzene	0.894	1.051	-17.6	103	0.00
77	T	1,2-Dichlorobenzene	0.856	1.016	-18.7	106	0.00
78	T	Hexachloro-1,3-Butadiene	0.670	0.858	-28.1	123	0.00
79	T	Naphthalene	1.283	1.509	-17.6	91	0.00
80	T	Naphthalene,2-methyl-	0.396	0.382	3.5	79	0.00
81	T	1,2,4-Trichlorobenzene	0.686	0.879	-28.1	101	0.00

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

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043001.D
Acq On : 24 Sep 2025 09:03
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 25 01:50:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	87	0.00
2	T	Dichlorodifluoromethane	10.000	10.909	-9.1	103	0.00
3		Chlorodifluoromethane	10.000	10.161	-1.6	94	0.00
4		Chloromethane	10.000	9.721	2.8	92	0.00
5	T	Vinyl Chloride	10.000	9.528	4.7	97	0.00
6	T	Bromomethane	10.000	10.217	-2.2	105	0.00
7		Chloroethane	10.000	9.757	2.4	93	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.590	-5.9	101	0.00
9	T	Propene	10.000	8.466	15.3	79	0.00
10	T	Heptane	10.000	9.321	6.8	85	0.01
11	T	Trichlorofluoromethane	10.000	11.500	-15.0	109	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.286	-12.9	107	0.00
13		Ethanol	10.000	6.390	36.1#	74	0.00
14	T	Bromoethene	10.000	10.873	-8.7	104	0.00
15	T	Acetone	10.000	8.416	15.8	96	0.00
16	T	1,3-Butadiene	10.000	9.054	9.5	93	0.00
17		tert-Butyl alcohol	10.000	8.671	13.3	80	0.00
18	T	1,1-Dichloroethene	10.000	10.581	-5.8	101	0.00
19	T	Isopropyl Alcohol	10.000	9.178	8.2	87	0.00
20	T	Methylene Chloride	10.000	11.743	-17.4	102	0.00
21	T	Allyl Chloride	10.000	9.758	2.4	90	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.660	-6.6	101	0.00
23	T	Vinyl Acetate	10.000	9.121	8.8	93	0.00
24	T	1,1-Dichloroethane	10.000	10.345	-3.5	98	0.00
25	T	Ethyl Acetate	10.000	9.642	3.6	88	0.00
26	T	Hexane	10.000	9.314	6.9	87	0.00
27	T	Carbon Disulfide	10.000	10.171	-1.7	94	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.867	1.3	105	0.00
29	T	Chloroform	10.000	11.162	-11.6	103	0.00
30	T	Cyclohexane	10.000	9.621	3.8	88	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.802	2.0	89	0.00
32	T	1,1,1-Trichloroethane	10.000	10.128	-1.3	98	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	84	0.00
34	T	2-Butanone	10.000	9.892	1.1	89	0.00
35	T	Carbon Tetrachloride	10.000	12.023	-20.2	108	0.00
36	T	Benzene	10.000	10.132	-1.3	89	0.00
37	T	1,2-Dichloroethane	10.000	11.163	-11.6	99	0.00
38	T	Trichloroethene	10.000	10.414	-4.1	96	0.00
39	T	1,2-Dichloropropane	10.000	10.375	-3.8	92	0.01
40	T	1,4-Dioxane	10.000	9.512	4.9	86	0.00
41	T	Tetrahydrofuran	10.000	9.453	5.5	82	0.00
42	T	Bromodichloromethane	10.000	11.374	-13.7	97	0.01
43		Methyl Methacrylate	10.000	9.196	8.0	81	0.01
44	T	2,2,4-Trimethylpentane	10.000	10.003	-0.0	87	0.00
45	T	t-1,3-Dichloropropene	10.000	9.161	8.4	77	0.01
46	T	cis-1,3-Dichloropropene	10.000	9.507	4.9	80	0.01
47	T	1,1,2-Trichloroethane	10.000	10.694	-6.9	95	0.01
48	T	Dibromochloromethane	10.000	11.758	-17.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043001.D
Acq On : 24 Sep 2025 09:03
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Sep 25 01:50:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	12.414	-24.1	104	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.885	1.2	84	0.01
51	T	2-Hexanone	10.000	9.893	1.1	83	0.00
52	T	Tetrachloroethene	10.000	10.736	-7.4	101	0.01
53	T	Toluene	10.000	9.928	0.7	86	0.01
54	T	1,2-Dibromoethane	10.000	10.814	-8.1	95	0.01
55	I	Chlorobenzene-d5	10.000	10.000	0.0	83	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.828	-18.3	102	0.00
57	T	Chlorobenzene	10.000	11.044	-10.4	98	0.00
58	T	Ethyl Benzene	10.000	10.281	-2.8	89	0.00
59	T	m/p-Xylene	20.000	21.119	-5.6	92	0.03
60	T	o-Xylene	10.000	10.775	-7.8	94	0.00
61	T	Styrene	10.000	9.879	1.2	83	0.00
62		Isopropylbenzene	10.000	10.600	-6.0	94	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	10.712	-7.1	99	0.00
64		n-propylbenzene	10.000	11.048	-10.5	97	0.00
65		tert-Butylbenzene	10.000	10.966	-9.7	100	0.00
66	T	Benzyl Chloride	10.000	6.307	36.9#	48	0.00
67		sec-Butylbenzene	10.000	10.819	-8.2	98	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.347	-3.5	84	0.00
69		p-Isopropyltoluene	10.000	11.108	-11.1	100	0.00
70		n-Butylbenzene	10.000	11.045	-10.4	96	0.00
71		2-Chlorotoluene	10.000	10.452	-4.5	92	0.00
72	T	4-Ethyltoluene	10.000	10.736	-7.4	94	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.943	-9.4	94	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.077	-10.8	98	0.00
75	T	1,3-Dichlorobenzene	10.000	11.719	-17.2	103	0.00
76	T	1,4-Dichlorobenzene	10.000	11.761	-17.6	103	0.00
77	T	1,2-Dichlorobenzene	10.000	11.867	-18.7	106	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	12.814	-28.1	123	0.00
79	T	Naphthalene	10.000	11.757	-17.6	91	0.00
80	T	Naphthalene,2-methyl-	10.000	9.647	3.5	79	0.00
81	T	1,2,4-Trichlorobenzene	10.000	12.808	-28.1	101	0.00

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

QC SAMPLE DATA

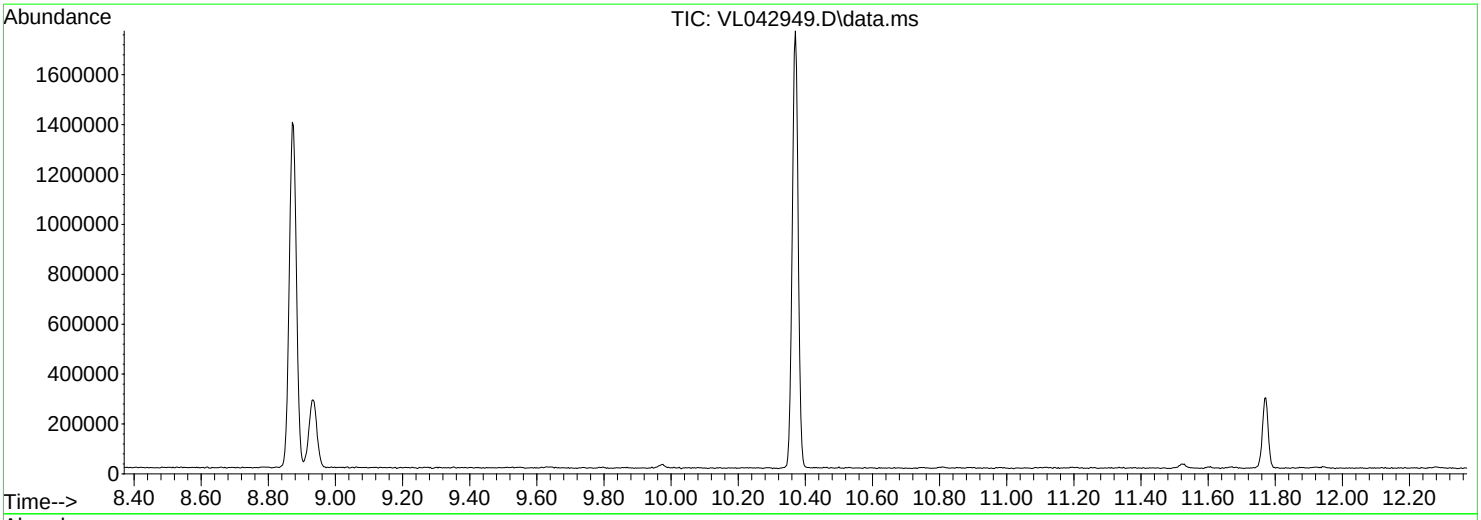
BFB

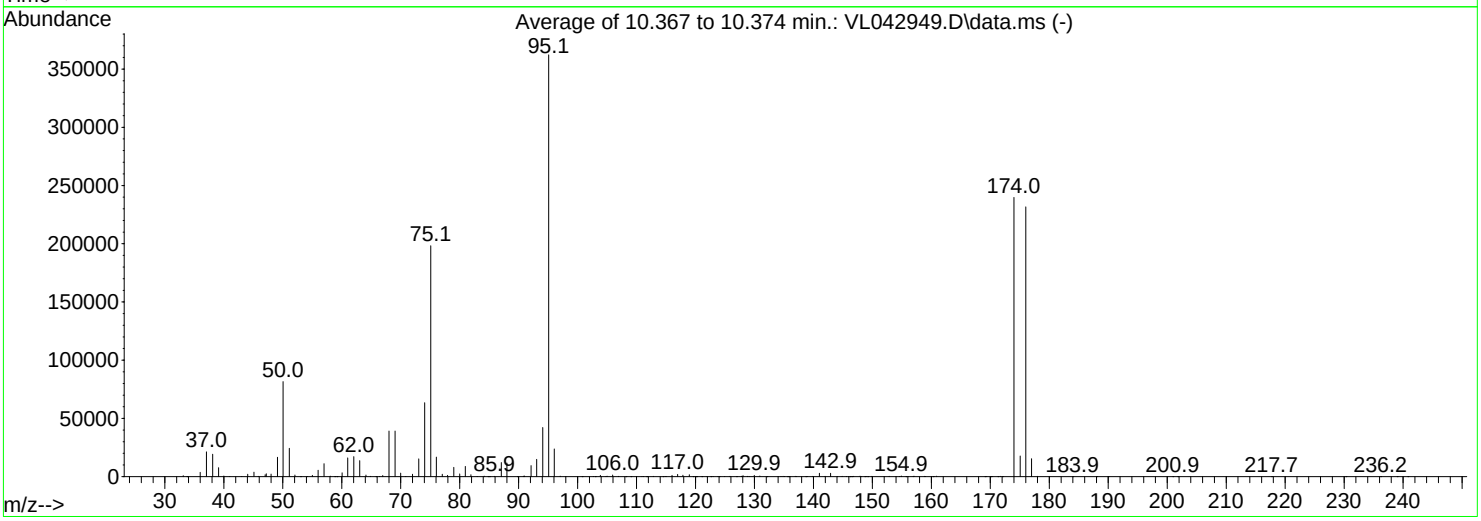
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042949.D
Acq On : 22 Sep 2025 08:55
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025





AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.5	81605	PASS
75	95	30	66	54.7	198315	PASS
95	95	100	100	100.0	362228	PASS
96	95	5	9	6.6	23817	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	66.2	239765	PASS
175	174	4	9	7.4	17693	PASS
176	174	93	101	96.6	231701	PASS
177	176	5	9	6.6	15367	PASS

Average of 10.367 to 10.374 min.: VL042949.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	843	45.85	253	56.00	5545	65.80	3
33.75	52	47.00	1694	57.00	11198	66.40	12
36.00	3748	47.20	2450	58.05	458	66.95	97
37.05	21251	48.00	2247	58.80	12	68.00	3914
38.10	19194	49.10	16630	59.20	54	69.05	39122
39.10	7706	50.05	81605	60.05	3370	70.00	3041
40.00	611	51.10	24305	61.00	16140	70.85	223
41.00	212	52.05	1353	62.05	17219	72.00	2035
43.05	136	53.00	72	63.05	13691	73.05	15293
44.05	2095	54.20	86	64.10	1359	74.05	63454
45.10	3798	55.00	1059	64.85	245	75.10	198315

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.367 to 10.374 min.: VL042949.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	16800	85.90	337	97.05	420	109.05	56
77.05	2059	87.05	12149	98.00	81	110.00	192
77.95	1179	88.00	11664	100.75	61	110.90	139
79.00	8035	89.80	31	102.65	97	111.15	198
80.00	2335	90.80	359	103.00	49	111.70	49
80.95	8798	91.00	622	103.85	1171	111.85	96
81.90	1684	92.10	9517	104.80	150	112.85	303
82.95	138	93.05	14816	105.00	378	114.50	70
84.15	388	94.10	42269	105.95	1346	114.90	157
84.80	17	95.10	362228	106.95	255	115.05	161
85.05	75	96.05	23817	108.20	73	116.00	1147

Average of 10.367 to 10.374 min.: VL042949.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.95	1950	124.00	19	132.10	39	139.90	323
117.85	1188	124.95	84	134.00	140	141.00	2899
118.95	1697	125.85	229	134.50	114	141.95	349
119.60	51	126.95	77	134.85	336	142.90	2933
120.00	53	127.80	315	135.10	170	144.05	151
120.20	61	127.90	464	135.60	42	144.85	287
121.05	57	128.05	783	135.85	51	145.60	121
121.95	99	128.80	273	136.90	259	145.95	217
122.60	27	129.10	152	137.10	199	146.20	56
123.00	155	129.95	1180	138.70	60	146.50	40
123.80	97	130.90	521	139.00	86	146.80	278

Average of 10.367 to 10.374 min.: VL042949.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.90	407	155.70	50	170.40	165	190.00	32
148.10	181	156.05	156	171.30	71	200.95	53
148.70	34	156.90	168	171.75	267	201.80	37
148.95	87	157.05	367	172.05	48	217.70	32
149.20	38	158.80	225	174.00	239765	230.30	17
149.90	259	159.00	184	175.05	17693	236.20	53
152.00	157	160.30	45	176.00	231701	239.00	24
152.85	262	160.90	377	177.00	15367	240.80	20
154.00	172	169.10	53	178.00	351		
154.60	207	169.40	85	183.95	49		
154.90	569	170.10	37	188.00	21		

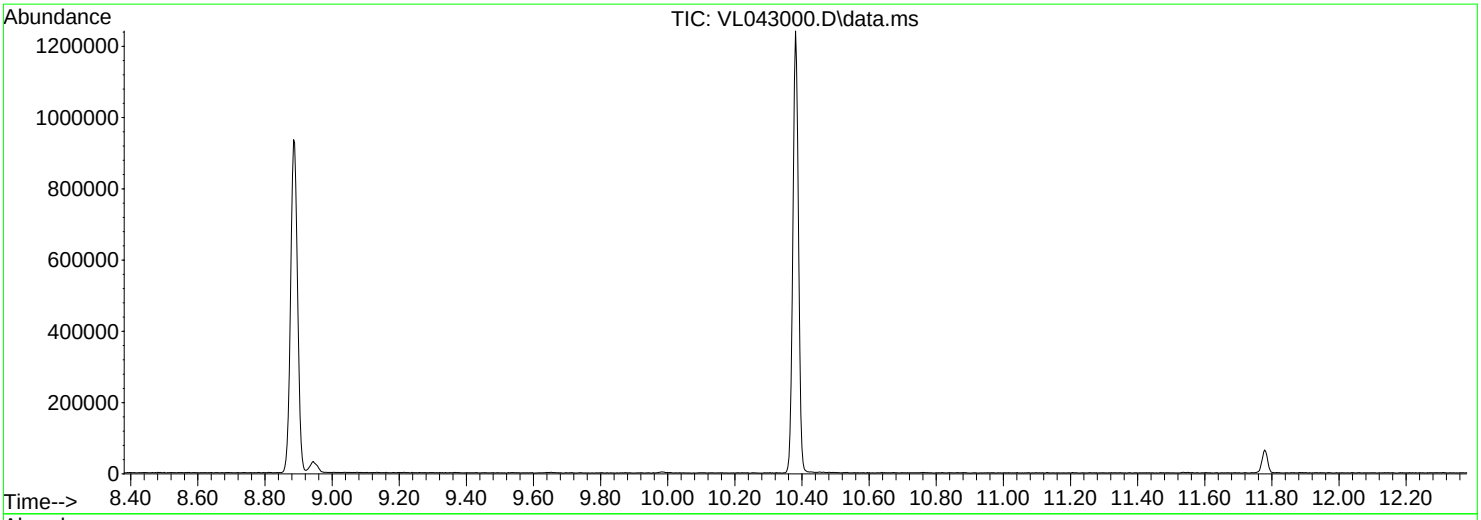
BFB

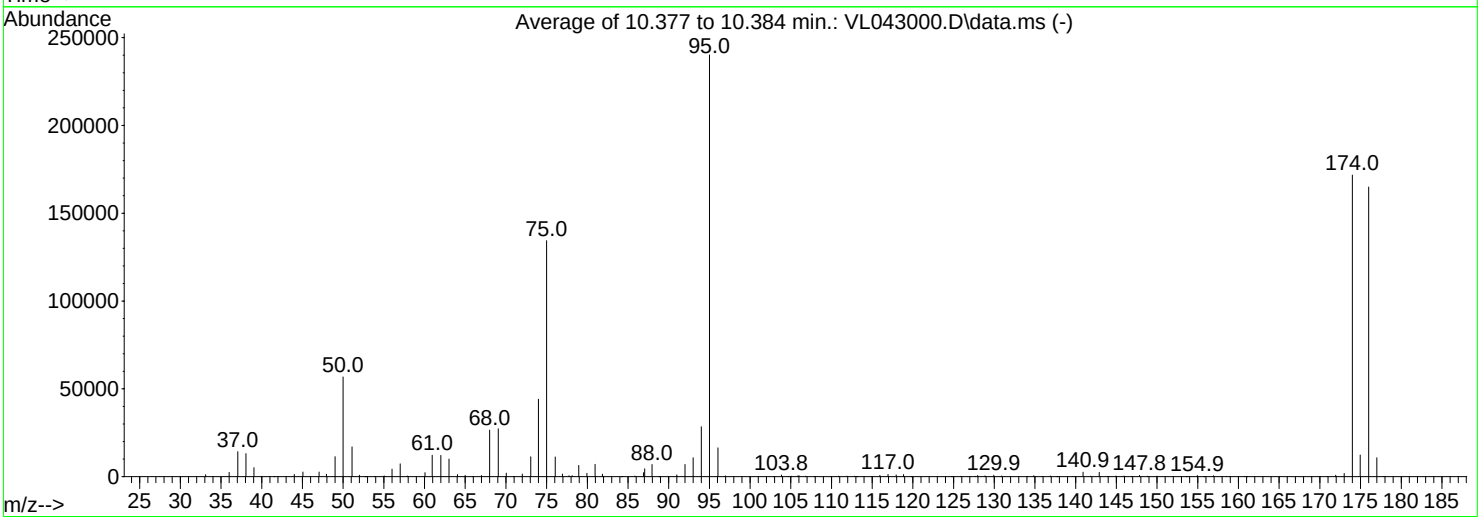
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043000.D
Acq On : 24 Sep 2025 08:20
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025





AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.6	56740	PASS
75	95	30	66	56.0	134448	PASS
95	95	100	100	100.0	240213	PASS
96	95	5	9	6.8	16381	PASS
173	174	0.00	2	1.1	1850	PASS
174	95	50	120	71.5	171733	PASS
175	174	4	9	7.2	12288	PASS
176	174	93	101	96.0	164928	PASS
177	176	5	9	6.5	10768	PASS

Average of 10.377 to 10.384 min.: VL043000.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1070	45.05	2678	55.05	506	67.00	62
33.95	106	46.00	220	56.00	4297	68.00	2652
36.00	2424	47.05	2644	57.00	7342	69.05	2726
37.05	14192	47.95	1359	57.90	409	70.05	205
38.05	13095	49.00	11393	60.05	2318	70.90	23
39.05	5102	50.00	56740	60.95	12233	72.00	1464
39.95	221	51.10	16989	62.00	12126	73.05	11342
41.50	21	52.00	804	63.00	10000	74.00	44080
42.00	88	52.70	20	64.05	1191	75.00	134448
43.00	204	52.90	76	65.00	706	76.05	11210
44.00	1274	53.85	63	65.90	88	76.95	1482

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.377 to 10.384 min.: VL043000.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.75	513	87.95	6913	104.70	95	114.90	183
78.15	541	88.80	40	105.05	237	115.95	768
78.95	6431	91.00	1028	105.80	384	116.95	1306
79.95	1959	92.00	6913	106.00	652	117.95	1000
80.95	7004	93.00	10729	106.80	309	118.85	1189
81.85	1412	94.00	28477	107.90	18	119.80	33
82.95	188	95.00	240213	109.90	109	124.05	196
84.20	19	96.05	16381	110.85	246	124.75	36
85.85	340	96.95	419	111.90	279	125.85	173
86.90	2304	102.90	94	112.85	250	126.75	60
87.05	4509	103.85	954	113.10	45	127.70	207

Average of 10.377 to 10.384 min.: VL043000.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.95	668	139.90	29	150.00	313	160.70	174
128.85	434	140.90	2596	152.00	181	161.00	36
129.95	801	141.85	296	152.95	139	168.90	17
130.90	350	142.90	2472	153.60	54	169.80	98
134.00	20	143.90	165	153.95	58	170.95	97
134.85	515	144.20	74	154.95	614	171.95	803
135.85	64	144.95	409	155.75	40	173.00	1850
136.90	371	145.95	389	156.95	584	174.00	171733
137.70	20	146.85	167	157.90	61	174.95	12288
139.05	81	147.85	743	158.55	102	176.00	164928
139.60	90	148.85	237	158.95	108	177.00	10768

Average of 10.377 to 10.384 min.: VL043000.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.80	97						
178.05	179						

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	179 Vermont St Brooklyn NY	Date Received:	
Client Sample ID:	VL0924ABL01	SDG No.:	Q3154
Lab Sample ID:	VL0924ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043002.D	1		09/24/25 09:51	VL092425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	150000		2.79			
540-36-3	1,4-Difluorobenzene	454000		3.962			
3114-55-4	Chlorobenzene-d5	394000		8.885			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043002.D
Acq On : 24 Sep 2025 09:51
Operator : SY/MD
Sample : VL0924ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABL01

Quant Time: Sep 25 01:52:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

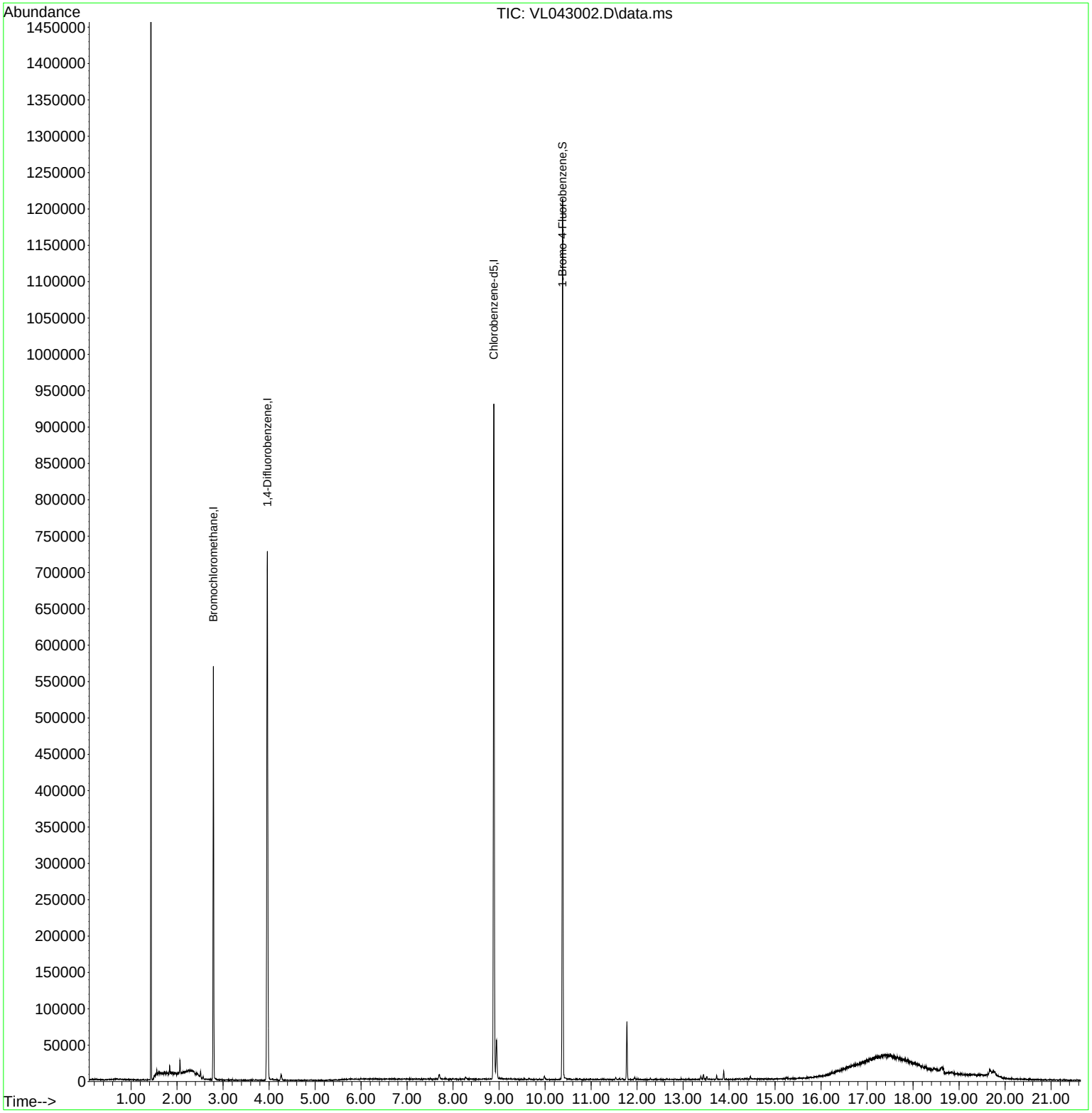
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	149932	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	453605	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	394017	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	291883	9.924	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue

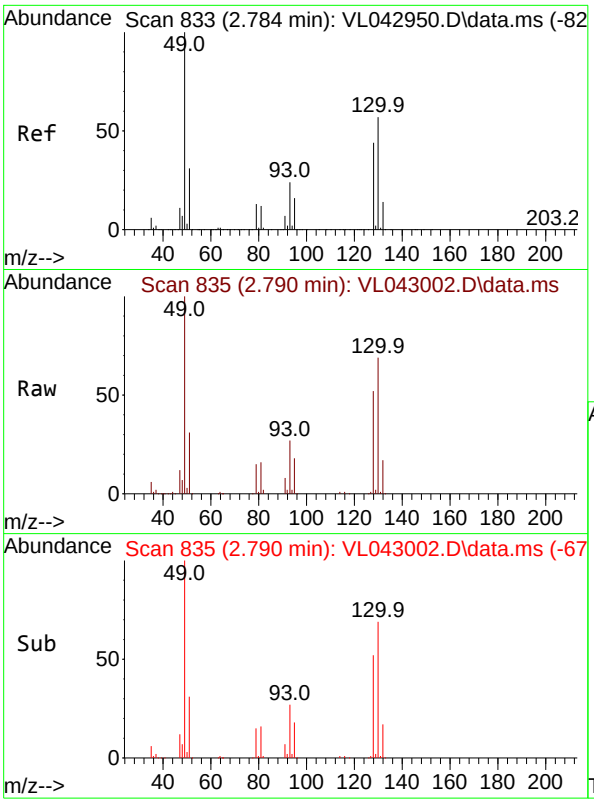
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043002.D
Acq On : 24 Sep 2025 09:51
Operator : SY/MD
Sample : VL0924ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABL01

Quant Time: Sep 25 01:52:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



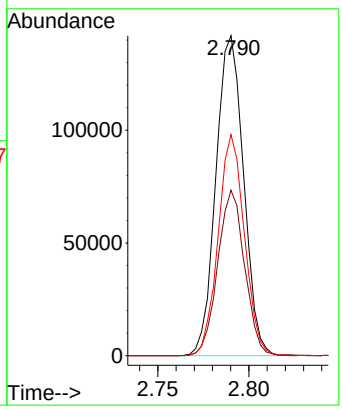


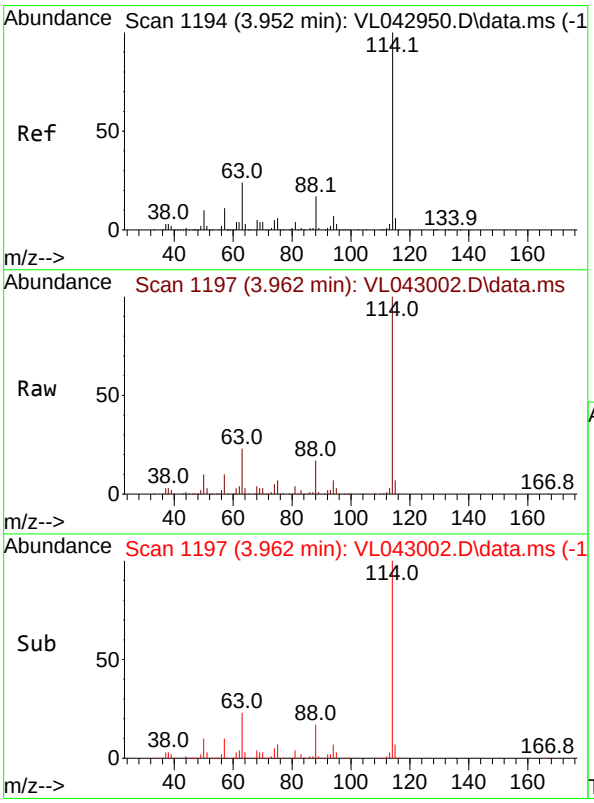
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043002.D
Acq: 24 Sep 2025 09:51

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABL01

Tgt Ion: 49 Resp: 149932

Ion	Ratio	Lower	Upper
49	100		
128	50.2	22.9	68.8
130	65.6	29.1	87.3

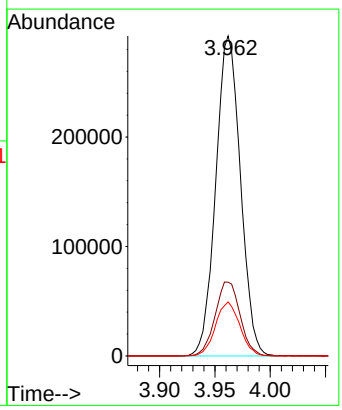


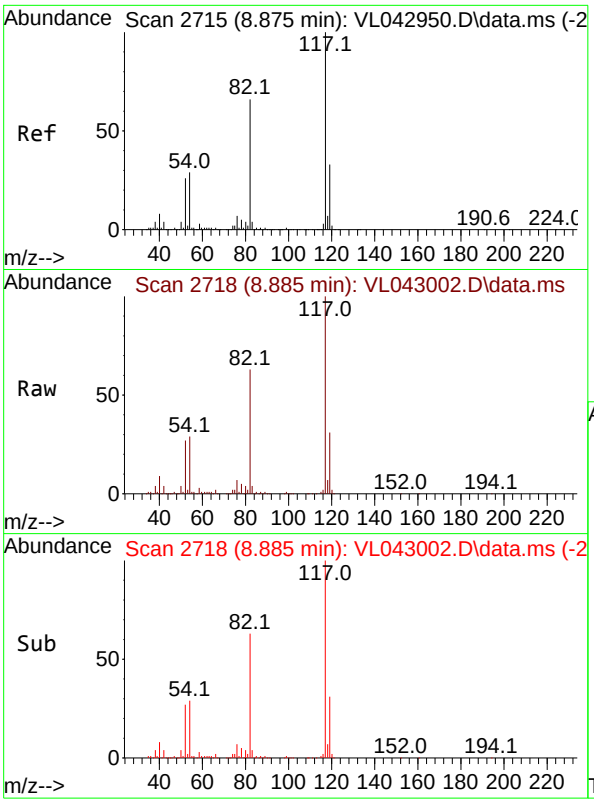


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL043002.D
Acq: 24 Sep 2025 09:51

Tgt Ion:114 Resp: 453605

Ion	Ratio	Lower	Upper
114	100		
63	23.4	19.4	29.2
88	16.7	14.2	21.2



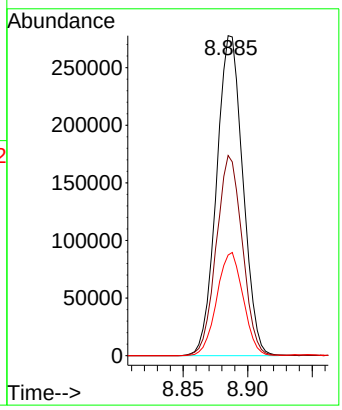


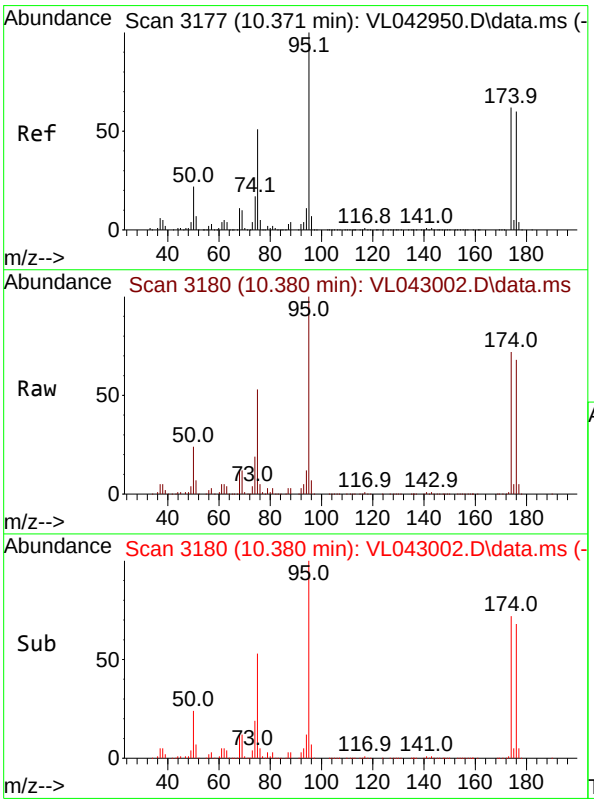
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043002.D
Acq: 24 Sep 2025 09:51

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABL01

Tgt Ion:117 Resp: 394017

Ion	Ratio	Lower	Upper
117	100		
82	61.9	52.8	79.2
119	32.4	26.5	39.7

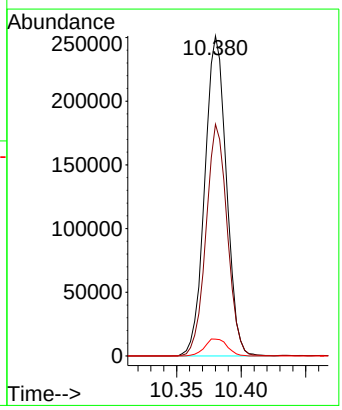




#68
1-Bromo-4-Fluorobenzene
Concen: 9.924 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL043002.D
Acq: 24 Sep 2025 09:51

Tgt Ion: 95 Resp: 291883

Ion	Ratio	Lower	Upper
95	100		
174	71.6	51.4	77.2
175	5.6	4.0	6.0



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	179 Vermont St Brooklyn NY	Date Received:	
Client Sample ID:	VL0924ABS01	SDG No.:	Q3154
Lab Sample ID:	VL0924ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043003.D	1		09/24/25 10:47	VL092425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3	
TARGETS							
75-01-4	Vinyl Chloride	9.40	24.0		0.080	0.080	
142-82-5	Heptane	9.30	38.1		0.70	2.05	
75-34-3	1,1-Dichloroethane	10.4	42.1		0.53	2.02	
110-82-7	Cyclohexane	9.60	33.0		0.76	1.72	
156-59-2	cis-1,2-Dichloroethene	9.90	39.3		0.40	1.98	
71-55-6	1,1,1-Trichloroethane	10.0	54.6		0.11	0.16	
71-43-2	Benzene	10.2	32.6		0.26	1.60	
79-01-6	Trichloroethene	10.5	56.4		0.11	0.16	
108-88-3	Toluene	9.90	37.3		0.60	1.88	
127-18-4	Tetrachloroethene	10.9	73.9		0.14	0.20	
100-41-4	Ethyl Benzene	10.4	45.2		0.83	2.17	
95-47-6	o-Xylene	10.7	46.5		0.91	2.17	
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1		0.88	2.46	
95-63-6	1,2,4-Trimethylbenzene	11.1	54.6		0.88	2.46	
91-20-3	Naphthalene	11.7	61.3		0.050	0.52	
110-54-3	Hexane	9.40	33.1		0.56	1.76	
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	151000		2.79			
540-36-3	1,4-Difluorobenzene	450000		3.962			
3114-55-4	Chlorobenzene-d5	405000		8.885			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043003.D
Acq On : 24 Sep 2025 10:47
Operator : SY/MD
Sample : VL0924ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Quant Time: Sep 25 01:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	150936	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	449573	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	405131	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	314184	10.389	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	219688	10.821	ppbv	99
3) Chlorodifluoromethane	1.476	51	255095	10.082	ppbv	97
4) Chloromethane	1.534	50	89265	9.714	ppbv	99
5) Vinyl Chloride	1.583	62	78179	9.411	ppbv	96
6) Bromomethane	1.670	94	29783	10.164	ppbv	94
7) Chloroethane	1.706	64	30943	9.593	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	180234	10.400	ppbv	90
9) Propene	1.486	41	94701	8.603	ppbv	95
10) Heptane	4.985	43	274374	9.340	ppbv	100
11) Trichlorofluoromethane	1.877	101	221460	11.314	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	177315	11.186	ppbv	90
13) Ethanol	1.722	45	6747	6.319	ppbv	95
14) Bromoethene	1.784	108	63818	10.649	ppbv	100
15) Acetone	1.835	43	164292	8.357	ppbv	98
16) 1,3-Butadiene	1.609	39	80632	8.695	ppbv	99
17) tert-Butyl alcohol	2.042	59	177016	8.210	ppbv	99
18) 1,1-Dichloroethene	2.036	96	76322	10.402	ppbv	93
19) Isopropyl Alcohol	1.887	45	103468	8.755	ppbv #	39
20) Methylene Chloride	2.062	84	67676	11.658	ppbv	96
21) Allyl Chloride	2.098	41	128489	9.385	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	87647	10.513	ppbv	92
23) Vinyl Acetate	2.463	43	263532	9.384	ppbv	98
24) 1,1-Dichloroethane	2.411	63	169220	10.350	ppbv	98
25) Ethyl Acetate	2.835	43	479080	9.642	ppbv	99
26) Hexane	2.829	57	212295	9.374	ppbv	99
27) Carbon Disulfide	2.153	76	204686	10.077	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	102709	8.724	ppbv	94
29) Chloroform	2.852	83	327227	11.050	ppbv	100
30) Cyclohexane	3.861	84	181395	9.579	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	210432	9.918	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	318480	9.957	ppbv	99
34) 2-Butanone	2.557	43	311605	9.890	ppbv	100
35) Carbon Tetrachloride	3.764	117	349345	11.936	ppbv	98
36) Benzene	3.661	78	428947	10.160	ppbv	99
37) 1,2-Dichloroethane	3.221	62	245698	11.066	ppbv	98
38) Trichloroethene	4.554	130	219940	10.483	ppbv	98
39) 1,2-Dichloropropane	4.315	63	159234	10.332	ppbv	92
40) 1,4-Dioxane	4.586	88	68528	9.562	ppbv #	97
41) Tetrahydrofuran	3.056	42	170739	9.428	ppbv	99
42) Bromodichloromethane	4.493	83	348397	11.267	ppbv #	98
43) Methyl Methacrylate	4.884	69	162155	9.388	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	722416	9.907	ppbv	97
45) t-1,3-Dichloropropene	6.418	75	167990	9.119	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043003.D
Acq On : 24 Sep 2025 10:47
Operator : SY/MD
Sample : VL0924ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Quant Time: Sep 25 01:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

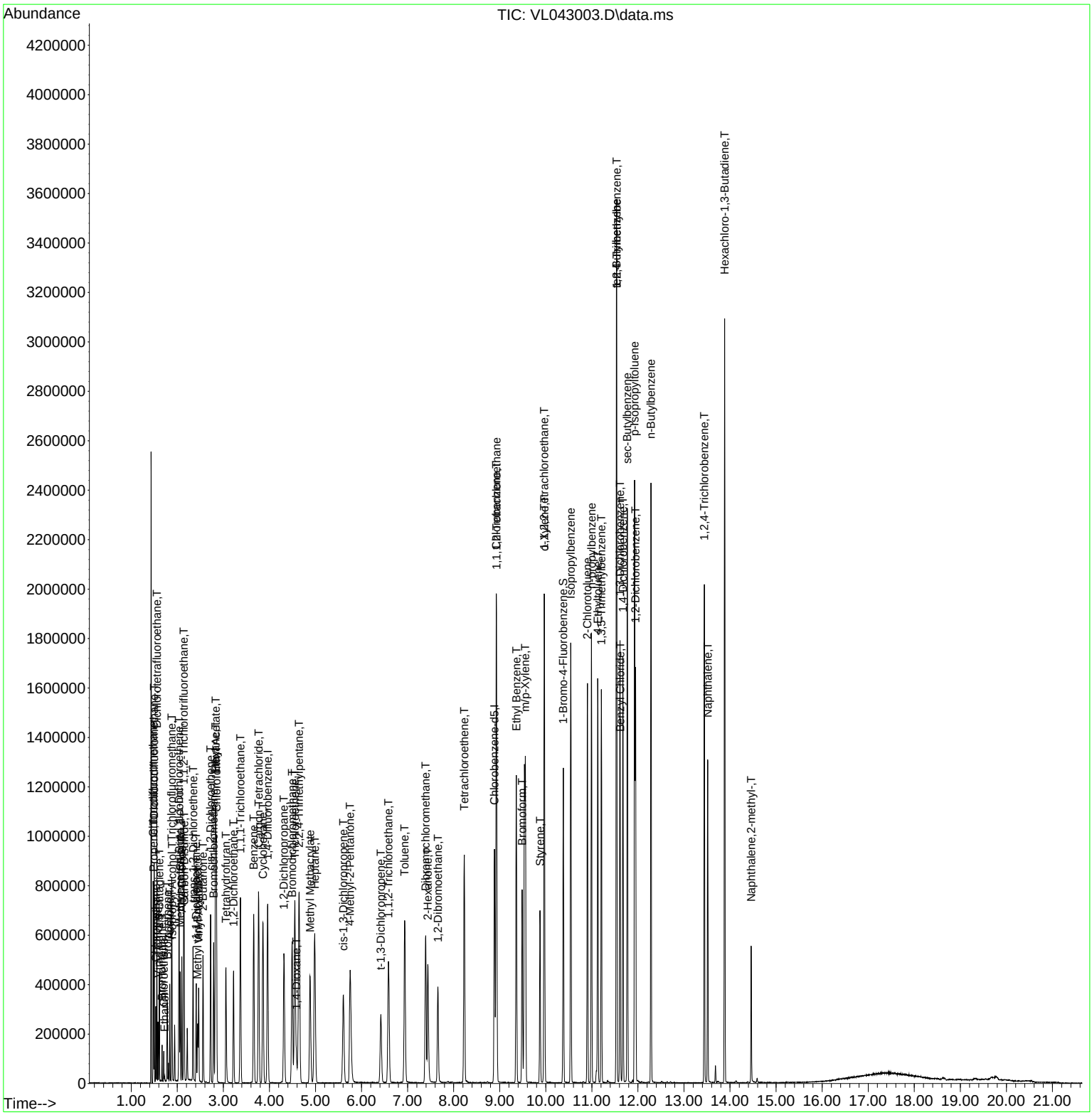
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	223077	9.502	ppbv		98
47) 1,1,2-Trichloroethane	6.583	97	174093	10.691	ppbv		96
48) Dibromochloromethane	7.393	129	309350	11.874	ppbv		98
49) Bromoform	9.487	173	279638	12.339	ppbv		99
50) 4-Methyl-2-Pentanone	5.752	43	423045	10.018	ppbv		99
51) 2-Hexanone	7.438	43	331885	9.860	ppbv	#	97
52) Tetrachloroethene	8.231	164	177496	10.866	ppbv		93
53) Toluene	6.936	91	493280	9.872	ppbv		99
54) 1,2-Dibromoethane	7.658	107	247778	10.810	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.930	131	230977	11.911	ppbv		100
57) Chlorobenzene	8.927	112	408572	11.047	ppbv		95
58) Ethyl Benzene	9.361	91	688808	10.354	ppbv		99
59) m/p-Xylene	9.555	91	1110641m	21.176	ppbv		
60) o-Xylene	9.969	91	560366	10.690	ppbv		99
61) Styrene	9.875	104	247781	9.993	ppbv		98
62) Isopropylbenzene	10.542	105	830044	10.623	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	292156	10.604	ppbv		100
64) n-propylbenzene	10.992	120	224888	11.015	ppbv		95
65) tert-Butylbenzene	11.536	119	768130	11.053	ppbv		97
66) Benzyl Chloride	11.616	91	44429	6.093	ppbv		99
67) sec-Butylbenzene	11.769	105	1052693	10.871	ppbv		99
69) p-Isopropyltoluene	11.927	119	898046	10.978	ppbv		99
70) n-Butylbenzene	12.283	91	867870	10.867	ppbv		99
71) 2-Chlorotoluene	10.904	91	617343	10.464	ppbv		98
72) 4-Ethyltoluene	11.128	105	705375	10.744	ppbv		100
73) 1,3,5-Trimethylbenzene	11.205	105	584573	10.979	ppbv		99
74) 1,2,4-Trimethylbenzene	11.539	105	654965	11.139	ppbv		95
75) 1,3-Dichlorobenzene	11.610	146	432617	11.863	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	425397	11.746	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	414086	11.935	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	344475	12.694	ppbv		98
79) Naphthalene	13.516	128	607495	11.684	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	153210	9.539	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	354007	12.734	ppbv		99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
Data File : VL043003.D
Acq On : 24 Sep 2025 10:47
Operator : SY/MD
Sample : VL0924ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0924ABS01

Quant Time: Sep 25 01:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VI092225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042950.D	m/p-Xylene	sam	9/23/2025 10:01:03 AM	MMDadoda	9/24/2025 2:16:17 AM	Peak Integrated by Software
VSTDICC002	VL042951.D	1,1,2-Trichloroethane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICC002	VL042951.D	1,2-Dichloropropane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICC002	VL042951.D	1,4-Dioxane	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICC002	VL042951.D	4-Methyl-2-Pentanone	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICC002	VL042951.D	m/p-Xylene	sam	9/23/2025 10:01:08 AM	MMDadoda	9/24/2025 2:16:19 AM	Peak Integrated by Software
VSTDICC001	VL042952.D	1,2-Dichloropropane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICC001	VL042952.D	1,4-Dioxane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICC001	VL042952.D	Bromodichloromethane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICC001	VL042952.D	cis-1,3-Dichloropropene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICC001	VL042952.D	Heptane	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICC001	VL042952.D	m/p-Xylene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software
VSTDICC001	VL042952.D	t-1,3-Dichloropropene	sam	9/23/2025 10:01:13 AM	MMDadoda	9/24/2025 2:16:21 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VI092225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042953.D	1,1,2-Trichloroethane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	1,4-Dioxane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	2,2,4-Trimethylpentane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Benzyl Chloride	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	cis-1,3-Dichloropropene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Ethanol	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Heptane	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	m/p-Xylene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Methyl Methacrylate	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	t-1,3-Dichloropropene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	Tetrachloroethene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.5	VL042953.D	trans-1,2-Dichloroethene	sam	9/23/2025 10:02:11 AM	MMDadoda	9/24/2025 2:16:23 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	1,2-Dibromoethane	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VI092225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042954.D	Carbon Tetrachloride	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	Naphthalene	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	Tetrachloroethene	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.1	VL042954.D	Trichloroethene	sam	9/23/2025 10:02:56 AM	MMDadoda	9/24/2025 2:16:25 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	1,1,1-Trichloroethane	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	1,1,2,2-Tetrachloroethane	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	Carbon Tetrachloride	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	Tetrachloroethene	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC0.03	VL042955.D	Trichloroethene	sam	9/23/2025 10:01:57 AM	MMDadoda	9/24/2025 2:16:26 AM	Peak Integrated by Software
VSTDICC015	VL042956.D	m/p-Xylene	sam	9/23/2025 10:01:19 AM	MMDadoda	9/24/2025 2:16:27 AM	Peak Integrated by Software
VSTDICV010	VL042957.D	m/p-Xylene	sam	9/23/2025 10:01:52 AM	MMDadoda	9/24/2025 2:16:29 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vL092425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043001.D	m/p-Xylene	sam	9/25/2025 10:15:17 AM	MMDadoda	9/26/2025 1:43:53 AM	Peak Integrated by Software
VL0924ABS01	VL043003.D	m/p-Xylene	sam	9/25/2025 10:15:25 AM	MMDadoda	9/26/2025 1:43:54 AM	Peak Integrated by Software
Q3154-02	VL043007.D	Acetone	sam	9/25/2025 10:23:18 AM	MMDadoda	9/26/2025 1:44:00 AM	Peak Integrated by Software
Q3154-02	VL043007.D	Carbon Tetrachloride	sam	9/25/2025 10:23:18 AM	MMDadoda	9/26/2025 1:44:00 AM	Peak Integrated by Software
Q3154-02	VL043007.D	Chlorodifluoromethane	sam	9/25/2025 10:23:18 AM	MMDadoda	9/26/2025 1:44:00 AM	Peak Integrated by Software
Q3154-02	VL043007.D	Propene	sam	9/25/2025 10:23:18 AM	MMDadoda	9/26/2025 1:44:00 AM	Peak Integrated by Software
Q3154-02DUP	VL043008.D	Acetone	sam	9/25/2025 10:15:49 AM	MMDadoda	9/26/2025 1:44:02 AM	Peak Integrated by Software
Q3154-02DUP	VL043008.D	Carbon Tetrachloride	sam	9/25/2025 10:15:49 AM	MMDadoda	9/26/2025 1:44:02 AM	Peak Integrated by Software
Q3154-02DUP	VL043008.D	Chlorodifluoromethane	sam	9/25/2025 10:15:49 AM	MMDadoda	9/26/2025 1:44:02 AM	Peak Integrated by Software
Q3154-02DUP	VL043008.D	Propene	sam	9/25/2025 10:15:49 AM	MMDadoda	9/26/2025 1:44:02 AM	Peak Integrated by Software
Q3154-01	VL043010.D	Carbon Tetrachloride	sam	9/25/2025 10:15:59 AM	MMDadoda	9/26/2025 1:44:04 AM	Peak Integrated by Software
Q3154-01	VL043010.D	Heptane	sam	9/25/2025 10:15:59 AM	MMDadoda	9/26/2025 1:44:04 AM	Peak Integrated by Software
Q3154-01	VL043010.D	Isopropyl Alcohol	sam	9/25/2025 10:15:59 AM	MMDadoda	9/26/2025 1:44:04 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vL092425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3154-01	VL043010.D	Propene	sam	9/25/2025 10:15:59 AM	MMDadoda	9/26/2025 1:44:04 AM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042949.D	22 Sep 2025 08:55	SY/MD	Ok
2	VSTDICCC010	VL042950.D	22 Sep 2025 09:39	SY/MD	Ok,M
3	VSTDICC002	VL042951.D	22 Sep 2025 10:14	SY/MD	Ok,M
4	VSTDICC001	VL042952.D	22 Sep 2025 10:48	SY/MD	Ok,M
5	VSTDICC0.5	VL042953.D	22 Sep 2025 11:22	SY/MD	Ok,M
6	VSTDICC0.1	VL042954.D	22 Sep 2025 11:56	SY/MD	Ok,M
7	VSTDICC0.03	VL042955.D	22 Sep 2025 12:30	SY/MD	Ok,M
8	VSTDICC015	VL042956.D	22 Sep 2025 13:05	SY/MD	Ok,M
9	VSTDICV010	VL042957.D	22 Sep 2025 14:15	SY/MD	Ok,M
10	VL0922ABL01	VL042958.D	22 Sep 2025 15:06	SY/MD	Ok
11	VL0922ABS01	VL042959.D	22 Sep 2025 15:52	SY/MD	Ok,M
12	Q3111-01	VL042960.D	22 Sep 2025 16:53	SY/MD	Dilution
13	Q3111-01DL	VL042961.D	22 Sep 2025 17:28	SY/MD	Ok,M
14	Q3112-01	VL042962.D	22 Sep 2025 18:04	SY/MD	Ok,M
15	Q3112-01DL	VL042963.D	22 Sep 2025 18:39	SY/MD	Not Ok
16	Q3112-02	VL042964.D	22 Sep 2025 19:14	SY/MD	Dilution
17	Q3112-02DL	VL042965.D	22 Sep 2025 19:49	SY/MD	Ok
18	Q3112-03	VL042966.D	22 Sep 2025 20:24	SY/MD	Ok,M
19	Q3112-03DL	VL042967.D	22 Sep 2025 20:59	SY/MD	Not Ok
20	VIBLK	VL042968.D	22 Sep 2025 21:35	SY/MD	Ok
21	Q3130-02	VL042969.D	22 Sep 2025 22:11	SY/MD	Ok,M

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3130-02DUP	VL042970.D	22 Sep 2025 22:48	SY/MD	Ok,M
23	Q3130-02DL	VL042971.D	22 Sep 2025 23:23	SY/MD	Not Ok
24	Q3130-01	VL042972.D	23 Sep 2025 00:00	SY/MD	Ok,M
25	Q3130-01DL	VL042973.D	23 Sep 2025 00:35	SY/MD	Not Ok
26	Q3131-01	VL042974.D	23 Sep 2025 01:11	SY/MD	Dilution
27	Q3131-01DL	VL042975.D	23 Sep 2025 01:46	SY/MD	Ok,M
28	Q3131-02	VL042976.D	23 Sep 2025 02:22	SY/MD	Dilution
29	Q3131-02DL	VL042977.D	23 Sep 2025 02:57	SY/MD	Ok,M
30	Q3132-01	VL042978.D	23 Sep 2025 03:33	SY/MD	Dilution
31	Q3132-01DL	VL042979.D	23 Sep 2025 04:08	SY/MD	Ok,M
32	Q3132-02	VL042980.D	23 Sep 2025 04:44	SY/MD	Ok,M
33	Q3132-02DL	VL042981.D	23 Sep 2025 05:19	SY/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092425

Review By	Semsettin Yesilyurt	Review On	9/25/2025 11:06:05 AM				
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:44:26 AM				
SubDirectory	VL092425	HP Acquire Method	TO15AIR		HP Processing Method	VL092225AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043000.D	24 Sep 2025 08:20	SY/MD	Ok
2	VSTDCCC010	VL043001.D	24 Sep 2025 09:03	SY/MD	Ok,M
3	VL0924ABL01	VL043002.D	24 Sep 2025 09:51	SY/MD	Ok
4	VL0924ABS01	VL043003.D	24 Sep 2025 10:47	SY/MD	Ok,M
5	Q3154-02DL	VL043004.D	24 Sep 2025 11:29	SY/MD	Not Ok
6	Q3154-01DL	VL043005.D	24 Sep 2025 12:03	SY/MD	Not Ok
7	Q3154-02DL	VL043006.D	24 Sep 2025 12:44	SY/MD	Not Ok
8	Q3154-02	VL043007.D	24 Sep 2025 13:31	SY/MD	Ok,M
9	Q3154-02DUP	VL043008.D	24 Sep 2025 14:06	SY/MD	Ok,M
10	Q3154-01	VL043009.D	24 Sep 2025 14:40	SY/MD	Not Ok
11	Q3154-01	VL043010.D	24 Sep 2025 15:39	SY/MD	Ok,M
12	VIBLK	VL043011.D	24 Sep 2025 16:14	SY/MD	Ok
13	Q2893-15 0.45	VL043012.D	24 Sep 2025 16:49	SY/MD	Ok,M
14	Q2893-15 0.40	VL043013.D	24 Sep 2025 17:24	SY/MD	Ok,M
15	Q2893-15 0.1	VL043014.D	24 Sep 2025 17:59	SY/MD	Ok,M
16	Q2893-15 0.03	VL043015.D	24 Sep 2025 19:49	SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042949.D	22 Sep 2025 08:55		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042950.D	22 Sep 2025 09:39		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042951.D	22 Sep 2025 10:14	LR-20	SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042952.D	22 Sep 2025 10:48		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042953.D	22 Sep 2025 11:22		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042954.D	22 Sep 2025 11:56		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042955.D	22 Sep 2025 12:30		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042956.D	22 Sep 2025 13:05		SY/MD	Ok,M
9	VSTDICV010	ICVVL092225	VL042957.D	22 Sep 2025 14:15	ICV failed for com.#13	SY/MD	Ok,M
10	VL0922ABL01	VL0922ABL01	VL042958.D	22 Sep 2025 15:06		SY/MD	Ok
11	VL0922ABS01	VL0922ABS01	VL042959.D	22 Sep 2025 15:52		SY/MD	Ok,M
12	Q3111-01	SV1	VL042960.D	22 Sep 2025 16:53	Need 40X	SY/MD	Dilution
13	Q3111-01DL	SV1DL	VL042961.D	22 Sep 2025 17:28		SY/MD	Ok,M
14	Q3112-01	SV1	VL042962.D	22 Sep 2025 18:04		SY/MD	Ok,M
15	Q3112-01DL	SV1DL	VL042963.D	22 Sep 2025 18:39	Not Required	SY/MD	Not Ok
16	Q3112-02	SV2	VL042964.D	22 Sep 2025 19:14	Need 40X	SY/MD	Dilution
17	Q3112-02DL	SV2DL	VL042965.D	22 Sep 2025 19:49		SY/MD	Ok
18	Q3112-03	SV3	VL042966.D	22 Sep 2025 20:24		SY/MD	Ok,M

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	AP2671
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3112-03DL	SV3DL	VL042967.D	22 Sep 2025 20:59	Not Required	SY/MD	Not Ok
20	VIBLK	VIBLK	VL042968.D	22 Sep 2025 21:35		SY/MD	Ok
21	Q3130-02	131-1A-2	VL042969.D	22 Sep 2025 22:11		SY/MD	Ok,M
22	Q3130-02DUP	131-1A-2DUP	VL042970.D	22 Sep 2025 22:48		SY/MD	Ok,M
23	Q3130-02DL	131-1A-2DL	VL042971.D	22 Sep 2025 23:23	Not Required	SY/MD	Not Ok
24	Q3130-01	131-1A-1	VL042972.D	23 Sep 2025 00:00		SY/MD	Ok,M
25	Q3130-01DL	131-1A-1DL	VL042973.D	23 Sep 2025 00:35	Not Required	SY/MD	Not Ok
26	Q3131-01	141-1A-1	VL042974.D	23 Sep 2025 01:11	Need 10X	SY/MD	Dilution
27	Q3131-01DL	141-1A-1DL	VL042975.D	23 Sep 2025 01:46		SY/MD	Ok,M
28	Q3131-02	141-1A-2	VL042976.D	23 Sep 2025 02:22	Need 10X	SY/MD	Dilution
29	Q3131-02DL	141-1A-2DL	VL042977.D	23 Sep 2025 02:57		SY/MD	Ok,M
30	Q3132-01	151-1A-1	VL042978.D	23 Sep 2025 03:33	Need 10X	SY/MD	Dilution
31	Q3132-01DL	151-1A-1DL	VL042979.D	23 Sep 2025 04:08		SY/MD	Ok,M
32	Q3132-02	151-1A-2	VL042980.D	23 Sep 2025 04:44		SY/MD	Ok,M
33	Q3132-02DL	151-1A-2DL	VL042981.D	23 Sep 2025 05:19	Not Required	SY/MD	Not Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL092425

Review By	Semsettin Yesilyurt	Review On	9/25/2025 11:06:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:44:26 AM		
SubDirectory	VL092425	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2676
Initial Calibration Stds	AP2673,AP2674,AP2675
CCC	AP2673
Internal Standard/PEM	AP2676
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043000.D	24 Sep 2025 08:20		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043001.D	24 Sep 2025 09:03		SY/MD	Ok,M
3	VL0924ABL01	VL0924ABL01	VL043002.D	24 Sep 2025 09:51		SY/MD	Ok
4	VL0924ABS01	VL0924ABS01	VL043003.D	24 Sep 2025 10:47		SY/MD	Ok,M
5	Q3154-02DL	SV2DL	VL043004.D	24 Sep 2025 11:29	Not Required	SY/MD	Not Ok
6	Q3154-01DL	SV1DL	VL043005.D	24 Sep 2025 12:03	Not Required	SY/MD	Not Ok
7	Q3154-02DL	SV2DL	VL043006.D	24 Sep 2025 12:44	Not Required	SY/MD	Not Ok
8	Q3154-02	SV2	VL043007.D	24 Sep 2025 13:31		SY/MD	Ok,M
9	Q3154-02DUP	SV2DUP	VL043008.D	24 Sep 2025 14:06		SY/MD	Ok,M
10	Q3154-01	SV1	VL043009.D	24 Sep 2025 14:40	Run @ Lower Dilution	SY/MD	Not Ok
11	Q3154-01	SV1	VL043010.D	24 Sep 2025 15:39		SY/MD	Ok,M
12	VIBLK	VIBLK	VL043011.D	24 Sep 2025 16:14		SY/MD	Ok
13	Q2893-15 0.45	MDL-AIR-03-QT3-2025	VL043012.D	24 Sep 2025 16:49		SY/MD	Ok,M
14	Q2893-15 0.40	MDL-AIR-03-QT3-2025	VL043013.D	24 Sep 2025 17:24		SY/MD	Ok,M
15	Q2893-15 0.1	MDL-AIR-03-QT3-2025	VL043014.D	24 Sep 2025 17:59		SY/MD	Ok,M
16	Q2893-15 0.03	MDL-AIR-03-QT3-2025	VL043015.D	24 Sep 2025 19:49		SY/MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : _____

Client Contact Information	Bottle Order ID : **B2509040**	Courier : F GALDUN	2 of 2 COCs
Client ID : **GFEL01** Project ID : **All Projects**		Sampler Name(s) FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **Frank galdun**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 179 VERMONT ST BROOKLYN, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV2	9/9/25	9:57	11:37	-30	0	68	68	-30	-2.2	10185	10595	6 L	50	VL042828.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

**Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High (Medium) Low PID Readings: 33.5

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 9/17/25	Canisters Received by:	Date/Time:		
Samples Relinquished by: FGD	Date/Time: 9/19/25	Received by:	Date/Time: 9/19/25 1230		
Relinquished by:	Date/Time:	Received by:	Date/Time:		B2509040 - 2

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Alliance Project No. : _____

Client Contact Information	Bottle Order ID : **B2509040**	Courier : F GALDUN	1 of 2 COCs
Client ID : **GFEL01** Project ID : **All Projects**		Sampler Name(s) FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **Frank galdun**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**	Batch Certified	
	Site Details: 179 VERMONT ST. BROOKLYN, NY		
City : **Lake Hiawatha**	Analysis Turnaround Time 5 DAY		
State : **NJ**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Zip Code : **07034**	Rush (Specify): 5 **Days**	EDD Type : PDF	
Country :			

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV1	9/19/25	8:41	10:41	0/-30	6	60	68	-30	-5.5	10707	10267	6 L	50	VL042854.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 4L

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 9/17/25	Canisters Received by:	Date/Time:	
Samples Relinquished by:	Date/Time: 9/19/25	Received by:	Date/Time: 9/19/25 1230	B2509040 - 1
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Date . .

ANALYTE LIST

PCE
TCE
CIS-1,2-DCE
1,1,1-TCA
1,1-DCE
VINYL CHLORIDE
BENZENE
ETHYLBENZENE
NAPHTHALENE
CYCLOHEXANE
2,2,4-TRIMETHYLBENZENE
1,3,5-TRIMETHYLBENZENE
O-XYLENE
HEPTANE
HEXANE
TOLUENE

DEP-077
Rev. 3/04

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech
NASP:
Field Sample Seal No.: Q3154
Case No.: All Projects

Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Date Broken: 9/19/2025
Military Time Seal Broken: 12:30:00
Analytical Parameter/Fraction: VOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3154-01	SV1		
Q3154-02	SV2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/19/25	1330	Signature	Signature	
		Printed Name Cassanova Rene	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) *Yellow - Contractor Archive* *Pink - Sample Custodian - Interim Copy*

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: _____

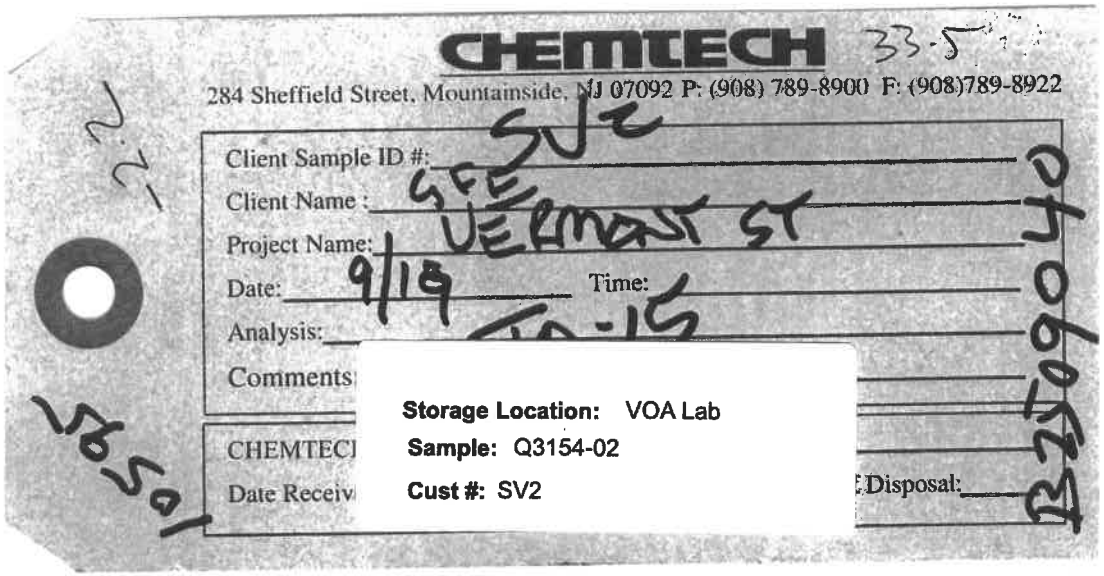
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
09/16/15	Q3112-01	10198	12.0	-5.5				SV
↓	Q3112-02	10606	11.0	-7.5				↓
↓	Q3112-03	10279	11.8	-5.9				↓
09/17/15	Q3130-01	10154	10.8	-8.0				SV
↓	Q3130-02	10197	12.4	-4.7				↓
↓	Q3131-01	10275	11.4	-6.7				↓
↓	Q3131-02	10282	11.4	-6.7				↓
↓	Q3132-01	10599	13.6	-2.2				↓
↓	Q3132-02	10294	11.4	-6.7				↓
9/19	Q3154-01	10267	12.0	-5.5				SV
↓	Q3154-02	10595	13.6	-2.2				↓

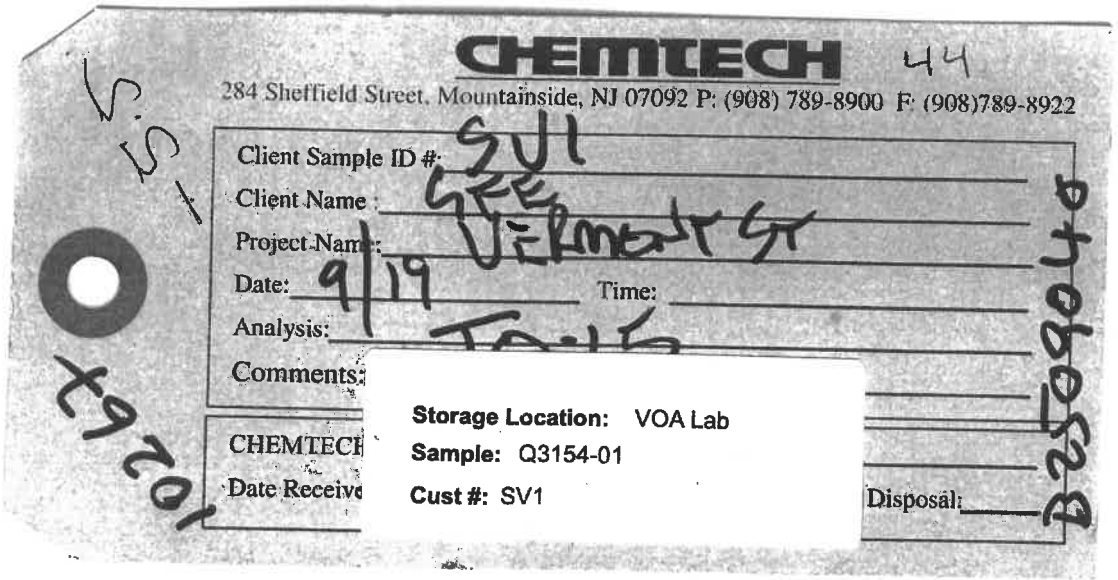
Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Process Report

Order ID : Q3154

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
09/19/2025	B2509040	Q3154-02	-2.2	10595	6 L	10185		C2508001	**VL042828.D** Seq :VL080725 TUNE : VL042823.D ICAL : VL042752.D CCAL : VL042824.D MB : VL042825.D
09/19/2025	B2509040	Q3154-01	-5.5	10267	6 L	10707		C2508002	**VL042854.D** Seq :VL081325 TUNE : VL042841.D ICAL : VL042847.D CCAL : VL042842.D MB : VL042850.D


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: SV2
Client Name: GFE
Project Name: Vermont St
Date: 9/19
Time:
Analysis: TO-15
Comments:
CHEMTECH
Date Receiv
Disposal:
Storage Location: VOA Lab
Sample: Q3154-02
Cust #: SV2


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: SV1
Client Name: GFE
Project Name: Vermont St
Date: 9/19
Time:
Analysis: TO-15
Comments:
CHEMTECH
Date Receive
Disposal:
Storage Location: VOA Lab
Sample: Q3154-01
Cust #: SV1