



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2506057				Courier : FRANK GILDUN				1 of 1 COCs															
Client ID : GFEL01 Project ID : 50 Jefferson Blvd, Staten Island NY				Sampler Name(s) : FRANK GILDUN				Analysis				Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				Analysis Matrix															
				Phone Number : 646-542-3465																							
				Fax Number : 973-334-1692																							
				Site Details: 135 W. JERICHO TRUNK HUNTINGTON, NY																							
Analysis Turnaround Time 5 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY				Indoor/Ambient Air Soil Gas															
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													
SV1	6/25/25	8:26	10:26	OVER 30	6	80	85	-30	-6.7	10707	10311	6 L	50	VL042490.D	1												
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) Sid					
	Ambient	Maximum	Minimum																								
Start																											
Stop																											
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.					
	Ambient	Maximum	Minimum																								
Start																											
Stop																											
Special Instructions/QC Requirements & Comments :																											
Suspected Contamination: High Medium Low PID Readings: 5.5																											
Sampling site (State):																											
Quick Connector required : NO																											
Canisters Shipped by: Samantha				Date/Time: 6/24/25				Canisters Received by: R.C. J.				Date/Time: 6-26-2025 12:00pm															
Samples Relinquished by: FRANK GILDUN				Date/Time: 6/26/25				Received by: R.C. J.				Date/Time: 6-26-2025 12:00pm															
Relinquished by:				Date/Time:				Received by:				Date/Time:															

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

DP 07/08/2025

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

~~0006E~~

Title: Sample Custodian

12

Field Sample Seal No. Q2432

Date Broken 6/26/2025

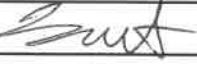
Military Time Seal Broken:

00:00:00

Case No.: 135 W Jericito Trn Pk, Hun

Analytical Parameter/Fraction VOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2432-01	SV1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
6/26	1300	Signature 	Signature 	
		Printed Name <u>George N.</u>	Printed Name <u>Samuelty yon...</u>	
		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

YG 06/28/25

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 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

LAB CHRONICLE

OrderID:	Q2432	OrderDate:	6/26/2025 12:49:07 PM
Client:	GFE LLC	Project:	135 W Jericito Trn Pk, Huntington NY
Contact:	Frank Galdun	Location:	D51,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2432-01	SV1	Air	VOCMS Group2	TO-15	06/25/25		06/27/25	06/26/25
Q2432-01DL	SV1DL	Air	VOCMS Group2	TO-15	06/25/25		06/27/25	06/26/25

Hit Summary Sheet
SW-846

SDG No.: Q2432

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q2432-01	SV1	Air	Trichloroethene	5.16		2.58	3.22	ug/m3
Q2432-01	SV1	Air	Tetrachloroethene	5970	E	2.03	4.07	ug/m3
			Total Voc :	5970				
			Total Concentration:	5970				
Client ID:	SV1DL							
Q2432-01DL	SV1DL	Air	Tetrachloroethene	5970	D	8.14	16.3	ug/m3
			Total Voc :	5970				
			Total Concentration:	5970				



QC SUMMARY

Surrogate Summary

SDG No.: Q2432

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2432-01	SV1	1-Bromo-4-Fluorobenzene	10	10.3	104		65	135
Q2432-01DL	SV1DL	1-Bromo-4-Fluorobenzene	10	10.7	107		65	135
Q2432-01DUP	SV1DUP	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
VL0627ABL01	VL0627ABL01	1-Bromo-4-Fluorobenzene	10	9.82	98		65	135
VL0627ABS01	VL0627ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2432</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL042672.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0627ABS01	Vinyl Chloride	10	9.50	ppbv	95			70	130	
	1,1-Dichloroethene	10	11.1	ppbv	111			70	130	
	cis-1,2-Dichloroethene	10	10.2	ppbv	102			70	130	
	1,1,1-Trichloroethane	10	10.3	ppbv	103			70	130	
	Trichloroethene	10	10.3	ppbv	103			70	130	
	Tetrachloroethene	10	10.1	ppbv	101			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2432-01DUP	Q2432-01
Client Id :	SV1DUP	SV1
DF :	20	20
Datafile :	VL042675.D	VL042674.D
Anal Date & Time :	06/27/2025 12:02	06/27/2025 11:30

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	870	880	1.1
Trichloroethene	0.98	0.96	2.1
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

SV1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2432

Lab File ID: VL042675.D

Lab Sample ID: Q2432-01DUP

Date Analyzed: 06/27/2025

Time Analyzed: 12:02

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
SV1DUP	Q2432-01DUP	VL042675.D	06/27/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0627ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2432

Lab File ID: VL042671.D

Lab Sample ID: VL0627ABL01

Date Analyzed: 06/27/2025

Time Analyzed: 09:11

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
VL0627ABS01	VL0627ABS01	VL042672.D	06/27/2025
SV1	Q2432-01	VL042674.D	06/27/2025
SV1DL	Q2432-01DL	VL042678.D	06/27/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2432

Lab File ID: VL042578.D

BFB Injection Date: 05/29/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:05

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	22.4
75	30.0 - 66.0% of mass 95	53.5
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	67.2
175	4.0 - 9.0% of mass 174	5.2 (7.7) 1
176	93.0 - 101.0% of mass 174	63.6 (94.6) 1
177	5.0 - 9.0% of mass 176	4 (6.3) 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	VL042579.D	05/29/2025	11:09
VSTDICCC002	VSTDICCC002	VL042580.D	05/29/2025	11:43
VSTDICCC001	VSTDICCC001	VL042581.D	05/29/2025	12:15
VSTDICCC0.5	VSTDICCC0.5	VL042582.D	05/29/2025	12:47
VSTDICCC0.1	VSTDICCC0.1	VL042583.D	05/29/2025	13:19
VSTDICCC0.03	VSTDICCC0.03	VL042584.D	05/29/2025	13:51
VSTDICCC015	VSTDICCC015	VL042585.D	05/29/2025	14:24

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VL042669.D
Instrument ID: MSVOA_L
GC Column: RTX-1 ID: 0.32 (mm)

Contract: GFEL01
SDG NO.: Q2432
BFB Injection Date: 06/27/2025
BFB Injection Time: 07:40
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.4
75	30.0 - 66.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 120.0% of mass 95	60.7
175	4.0 - 9.0% of mass 174	4.5 (7.4) 1
176	93.0 - 101.0% of mass 174	56.9 (93.9) 1
177	5.0 - 9.0% of mass 176	3.6 (6.3) 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	VL042670.D	06/27/2025	08:23
VL0627ABL01	VL0627ABL01	VL042671.D	06/27/2025	09:11
VL0627ABS01	VL0627ABS01	VL042672.D	06/27/2025	10:01
SV1	Q2432-01	VL042674.D	06/27/2025	11:30
SV1DUP	Q2432-01DUP	VL042675.D	06/27/2025	12:02
SV1DL	Q2432-01DL	VL042678.D	06/27/2025	14:36

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
Lab Code: ACE SDG NO.: Q2432
Lab File ID: VL042670.D Date Analyzed: 06/27/2025
Instrument ID: MSVOA_L Time Analyzed: 08:23
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	108045	2.78	273583	3.95	242543	8.88
UPPER LIMIT	151263	3.11	383016	4.28	339560	9.21
LOWER LIMIT	64827	2.45	164150	3.62	145526	8.55
EPA SAMPLE NO.						
SV1	116857	2.79	298488	3.96	274601	8.88
SV1DL	111786	2.78	286704	3.95	252875	8.88
SV1DUP	117408	2.78	303958	3.95	275395	8.88
VL0627ABL01	106054	2.78	269611	3.96	234616	8.88
VL0627ABS01	106951	2.78	276501	3.95	243742	8.88

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q2432
 Lab File ID: VL042670.D Date Analyzed: 06/27/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:23
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
SV1	0	0.00				
SV1DL	0	0.00				
SV1DUP	0	0.00				
VL0627ABL01	0	0.00				
VL0627ABS01	0	0.00				

IS4 =

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

Report of Analysis

Client:	GFE LLC	Date Collected:	06/25/25
Project:	135 W Jericito Trn Pk, Huntington NY	Date Received:	06/26/25
Client Sample ID:	SV1	SDG No.:	Q2432
Lab Sample ID:	Q2432-01	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
VL042674.D	20		06/27/25 11:30	VL062725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.50	1.28	U	1.28	1.53	ug/m3
75-35-4	1,1-Dichloroethene	3.00	11.9	U	11.9	39.6	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	U	7.93	39.6	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	U	1.75	3.27	ug/m3
79-01-6	Trichloroethene	0.96	5.16		2.58	3.22	ug/m3
127-18-4	Tetrachloroethene	880	5970	E	2.03	4.07	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000			2.787		
540-36-3	1,4-Difluorobenzene	298000			3.956		
3114-55-4	Chlorobenzene-d5	275000			8.875		

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042674.D
 Acq On : 27 Jun 2025 11:30
 Operator : SY/MD
 Sample : Q2432-01 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025

Quant Time: Jun 27 23:02:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	116857	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	298488	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	274601	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 213051 10.350 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.500%

Target Compounds

						Qvalue
3) Chlorodifluoromethane	1.470	51	5911	0.299	ppbv	99
9) Propene	1.480	41	4952	0.622	ppbv	95
10) Heptane	4.972	43	10506m	0.468	ppbv	
13) Ethanol	1.722	45	1541m	1.623	ppbv	
15) Acetone	1.836	43	34981	2.485	ppbv	97
26) Hexane	2.826	57	40228	2.298	ppbv #	39
29) Chloroform	2.849	83	10081	0.443	ppbv	88
34) 2-Butanone	2.557	43	32658	1.534	ppbv	99
36) Benzene	3.651	78	8711	0.296	ppbv #	89
38) Trichloroethene	4.541	130	603m	0.048	ppbv	
52) Tetrachloroethene	8.221	164	483973	44.063	ppbv	97
53) Toluene	6.927	91	19125	0.563	ppbv	97
59) m/p-Xylene	9.526	91	19208	0.524	ppbv	96
60) o-Xylene	9.960	91	10309	0.282	ppbv	87
74) 1,2,4-Trimethylbenzene	11.533	105	6547	0.156	ppbv #	65

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

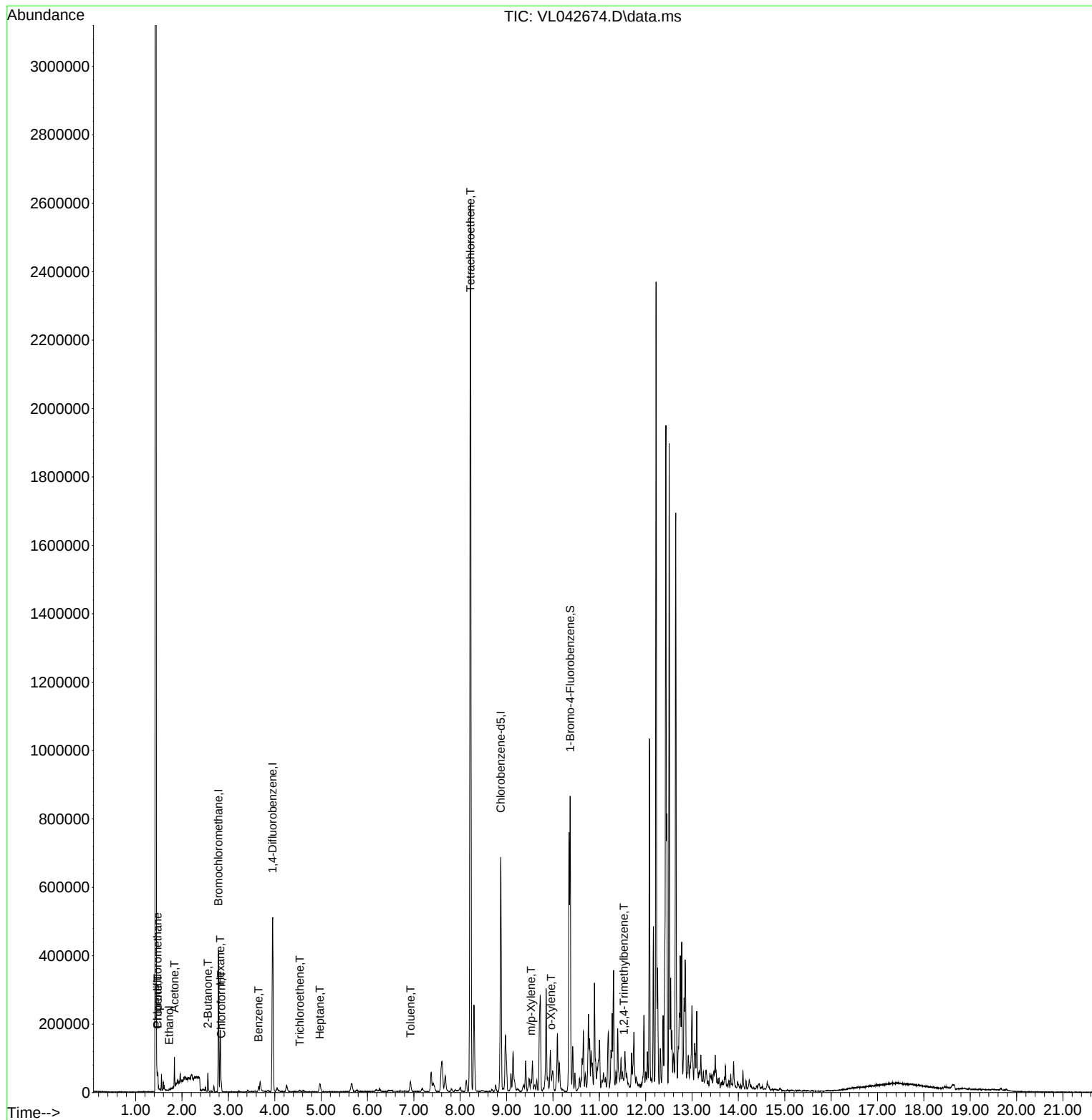
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Data File : VL042674.D
Acq On : 27 Jun 2025 11:30
Operator : SY/MD
Sample : Q2432-01 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

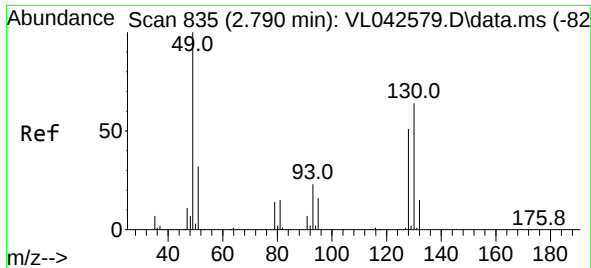
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Jun 27 23:02:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025





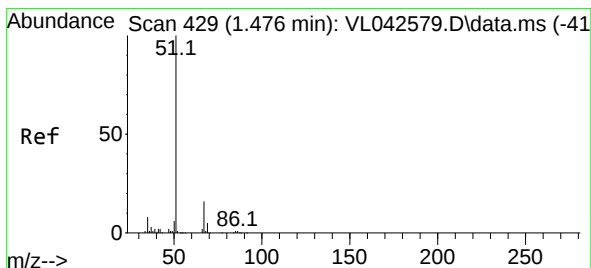
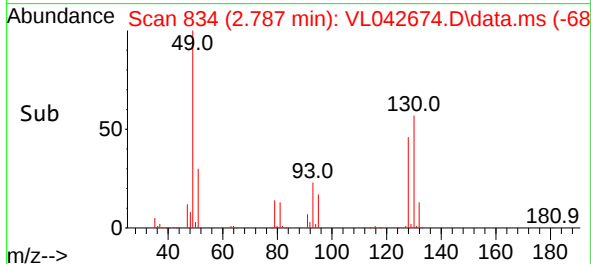
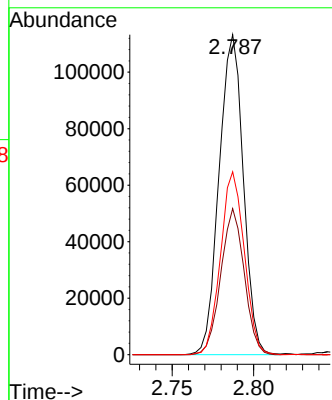
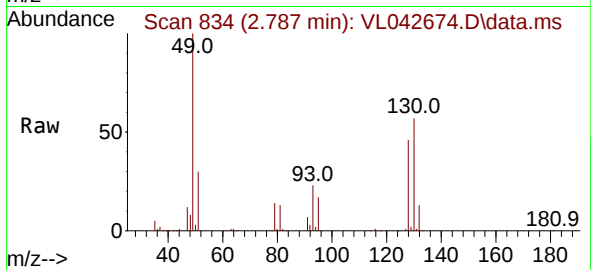
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 11685
Ion Ratio Lower Upper
49 100
128 44.2 24.2 72.6
130 56.2 30.4 91.2

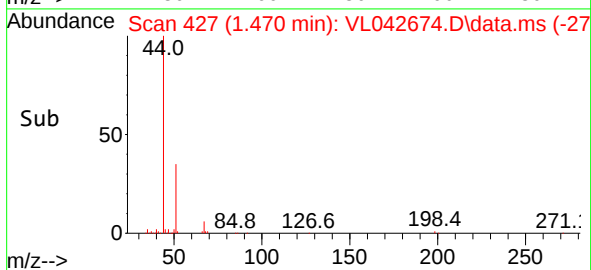
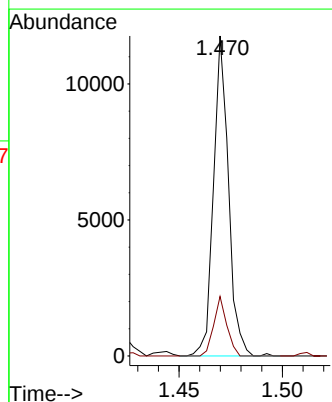
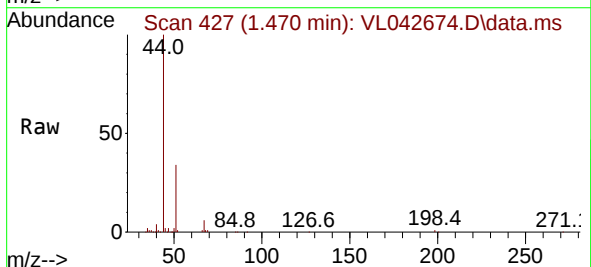
Manual Integrations
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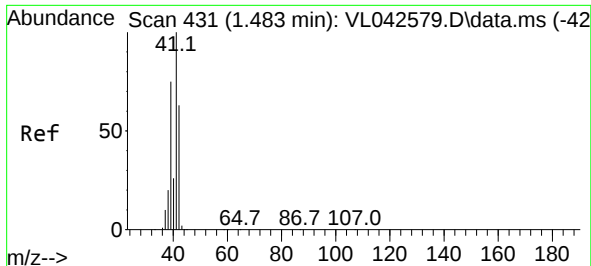
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#3
Chlorodifluoromethane
Concen: 0.299 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.006 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

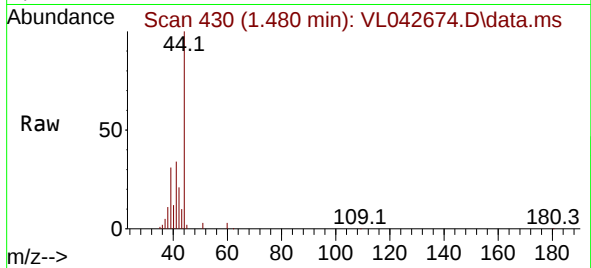
Tgt Ion: 51 Resp: 5911
Ion Ratio Lower Upper
51 100
67 16.3 13.4 20.2





#9
 Propene
 Concen: 0.622 ppbv
 RT: 1.480 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042674.D
 Acq: 27 Jun 2025 11:30

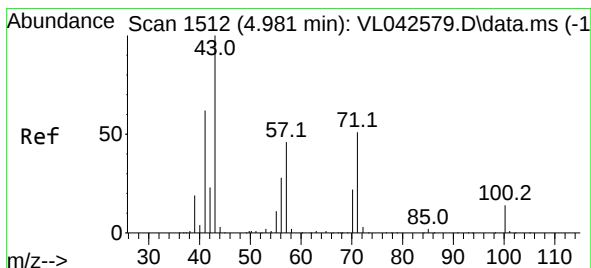
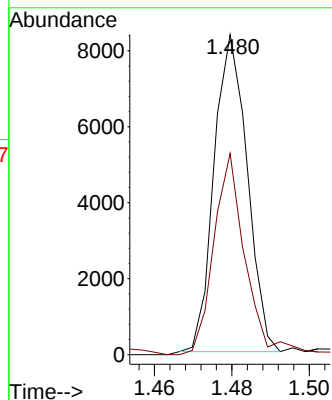
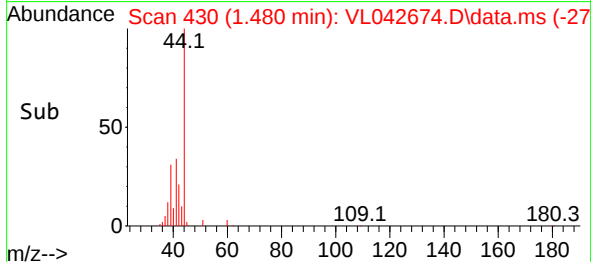
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 41 Resp: 4952
 Ion Ratio Lower Upper
 41 100
 42 70.2 53.3 79.9

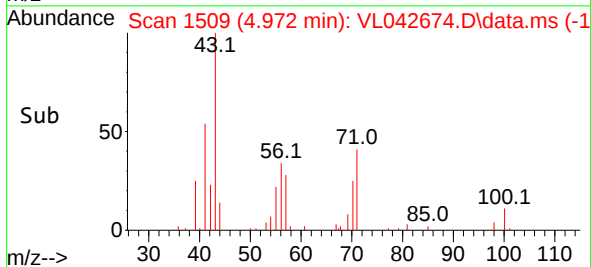
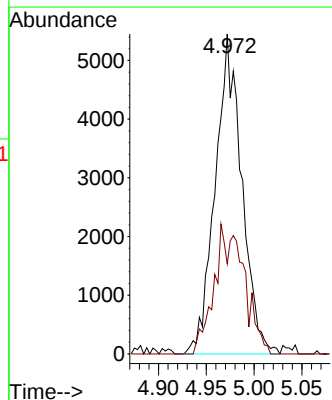
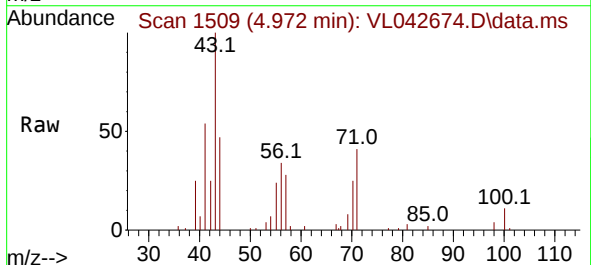
Manual Integrations
 APPROVED

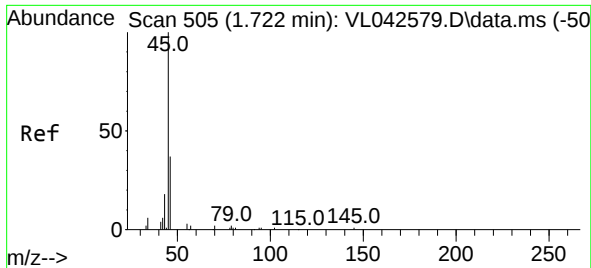
Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025



#10
 Heptane
 Concen: 0.468 ppbv m
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.010 min
 Lab File: VL042674.D
 Acq: 27 Jun 2025 11:30

Tgt Ion: 43 Resp: 10506
 Ion Ratio Lower Upper
 43 100
 57 0.0 38.9 58.3#





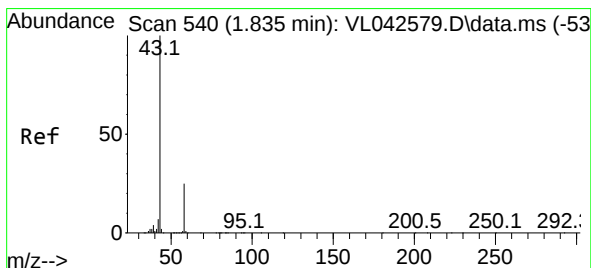
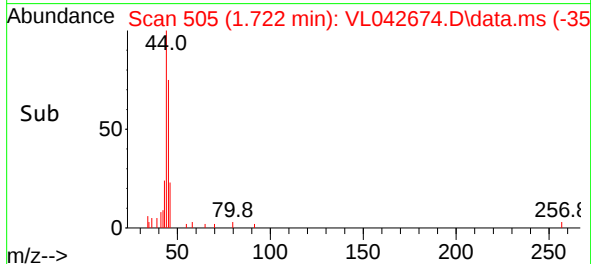
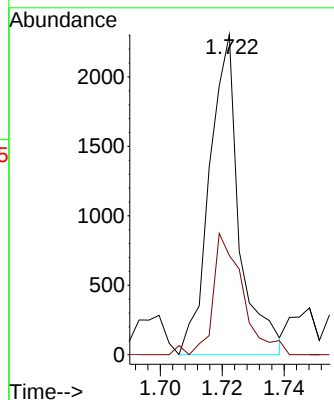
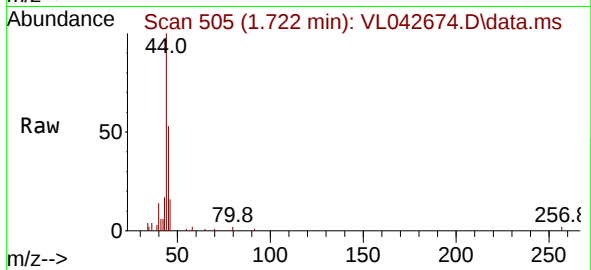
#13
Ethanol
Concen: 1.623 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 154
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1

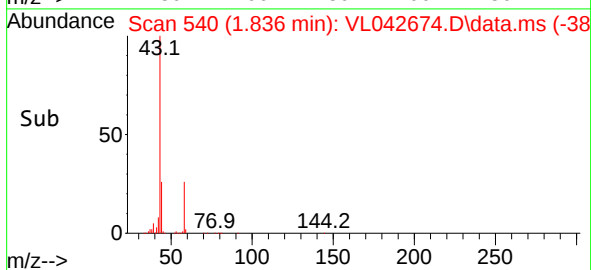
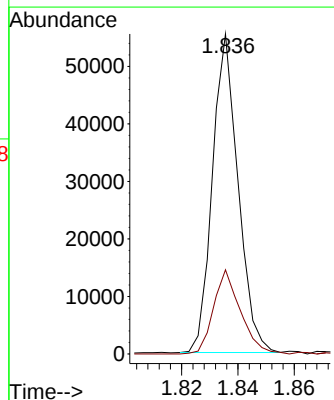
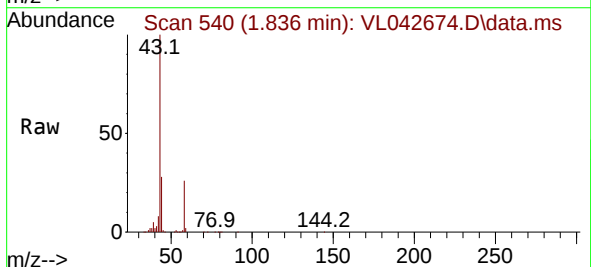
Manual Integrations
APPROVED

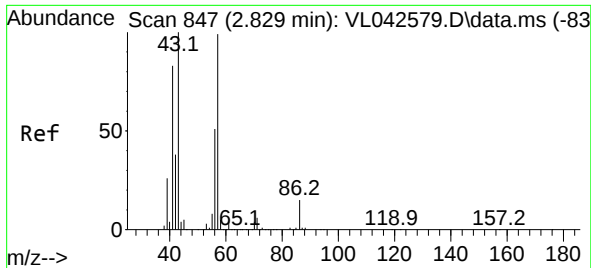
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#15
Acetone
Concen: 2.485 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

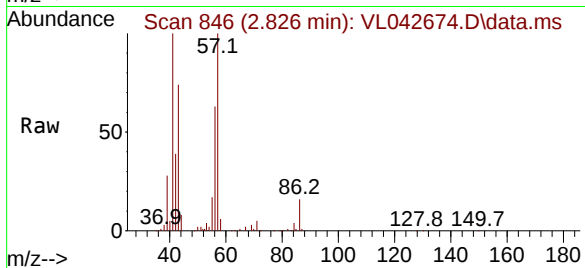
Tgt Ion: 43 Resp: 34981
Ion Ratio Lower Upper
43 100
58 28.0 21.0 31.4





#26
Hexane
Concen: 2.298 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

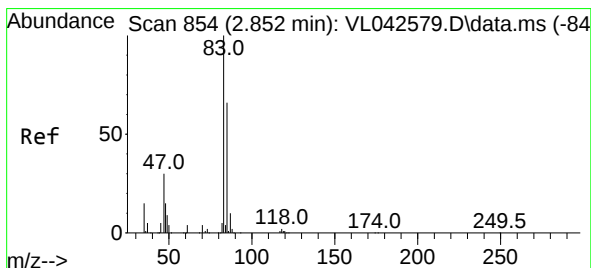
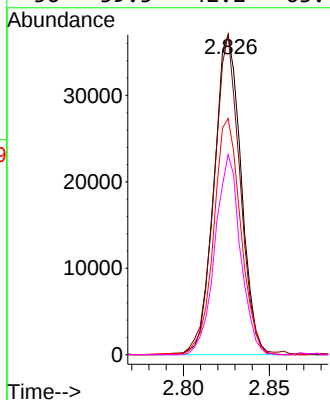
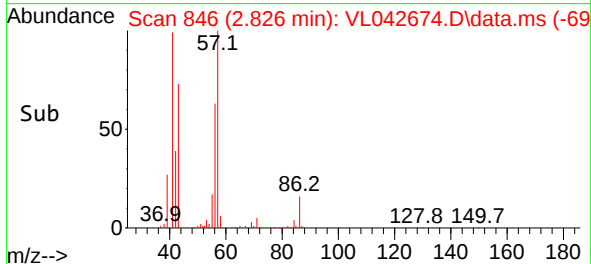
Instrument : MSVOA_L
ClientSampleId : SV1



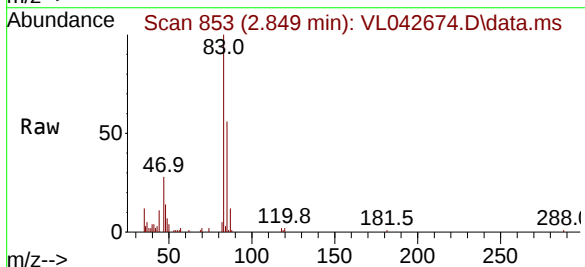
Tgt Ion: 57 Resp: 40228
Ion Ratio Lower Upper
57 100
41 97.3 70.6 106.0
43 74.2 181.1 271.7
56 59.5 42.2 63.4

Manual Integrations
APPROVED

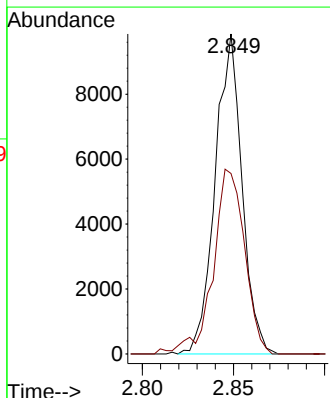
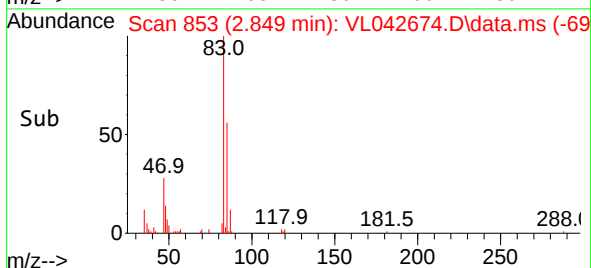
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025

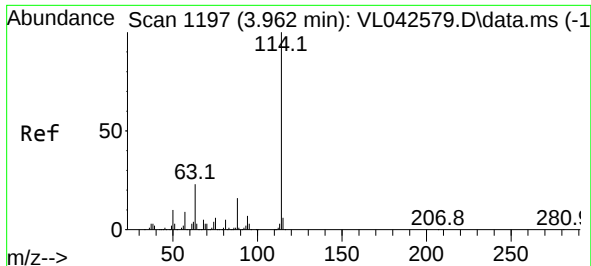


#29
Chloroform
Concen: 0.443 ppbv
RT: 2.849 min Scan# 853
Delta R.T. -0.003 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30



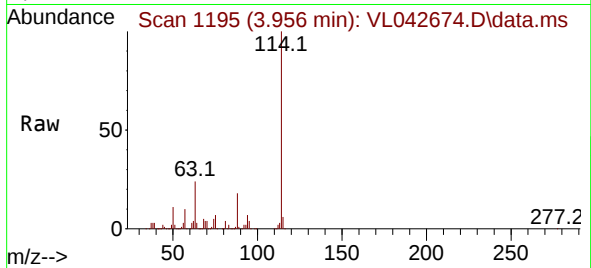
Tgt Ion: 83 Resp: 10081
Ion Ratio Lower Upper
83 100
85 56.4 52.8 79.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1197
Delta R.T. -0.006 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

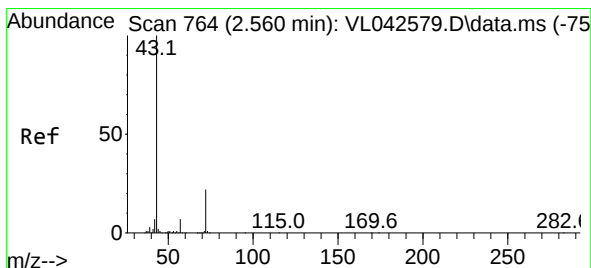
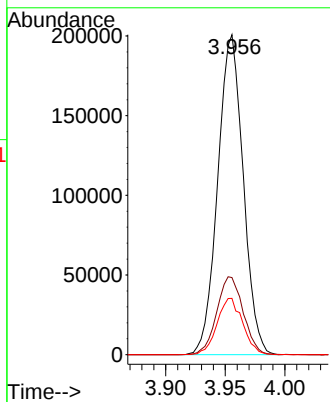
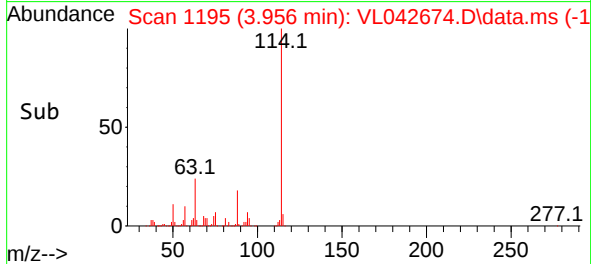
Instrument :
MSVOA_L
ClientSampleId :
SV1



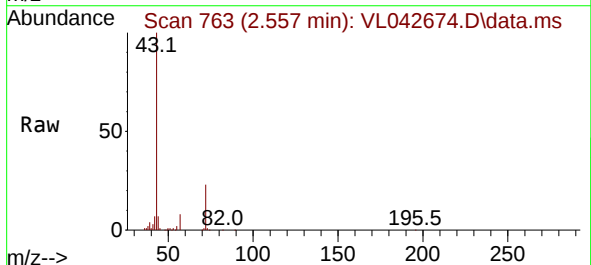
Tgt Ion:114 Resp: 298488
Ion Ratio Lower Upper
114 100
63 25.3 19.0 28.6
88 17.7 13.6 20.4

Manual Integrations
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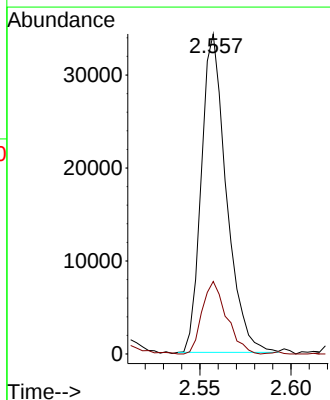
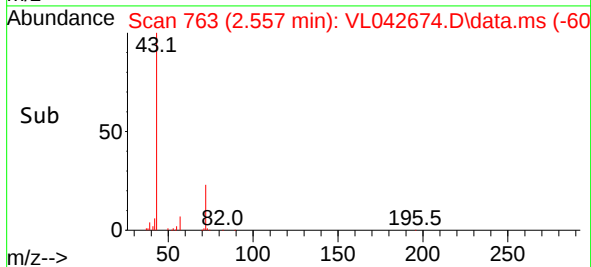
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025

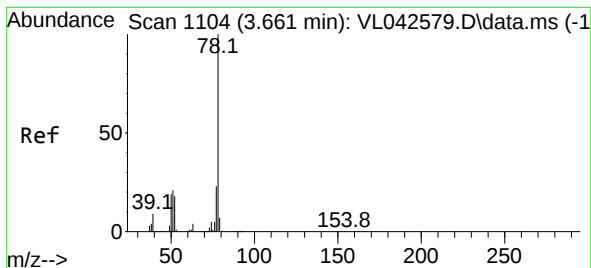


#34
2-Butanone
Concen: 1.534 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.003 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30



Tgt Ion: 43 Resp: 32658
Ion Ratio Lower Upper
43 100
72 22.7 17.7 26.5





#36

Benzene

Concen: 0.296 ppbv

RT: 3.651 min Scan# 1104

Delta R.T. -0.010 min

Lab File: VL042674.D

Acq: 27 Jun 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

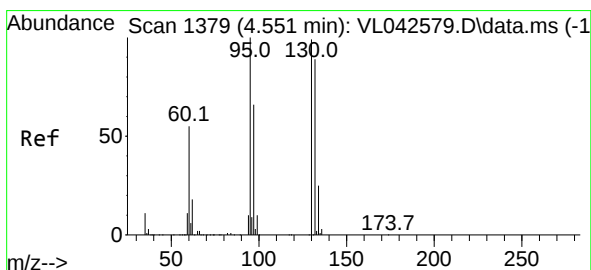
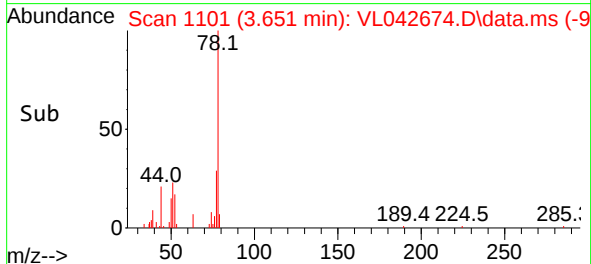
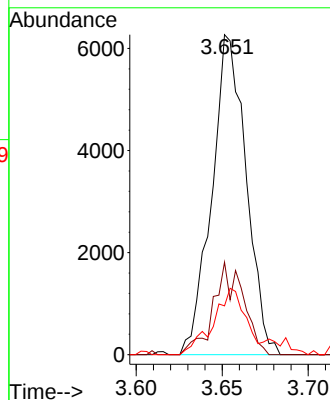
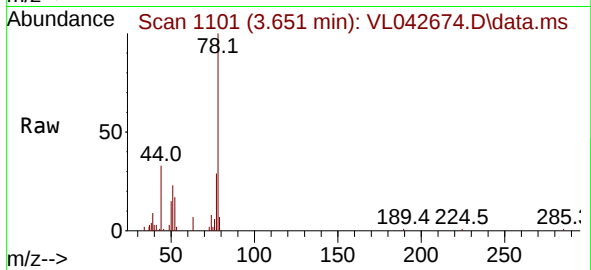
Tgt Ion: 78	Resp: 871
Ion Ratio	Lower Upper
78 100	
77 28.9	18.2 27.2
50 15.2	15.2 22.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025

Supervised By :Mahesh Dadoda 06/30/2025



#38

Trichloroethene

Concen: 0.048 ppbv m

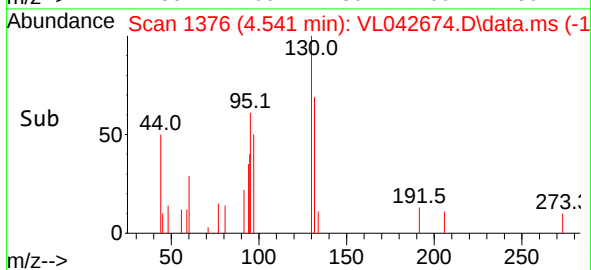
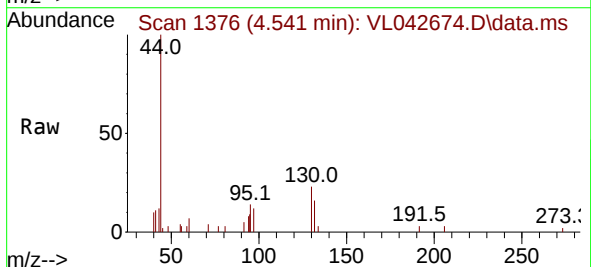
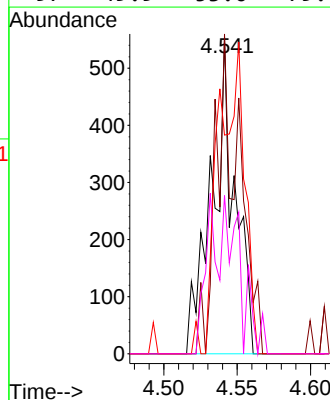
RT: 4.541 min Scan# 1376

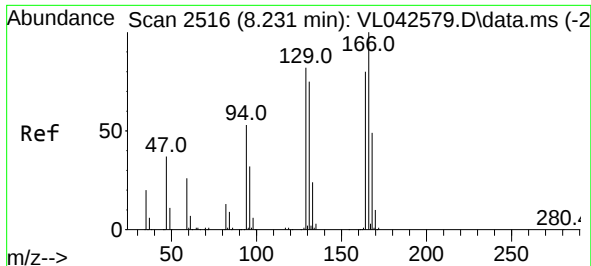
Delta R.T. -0.010 min

Lab File: VL042674.D

Acq: 27 Jun 2025 11:30

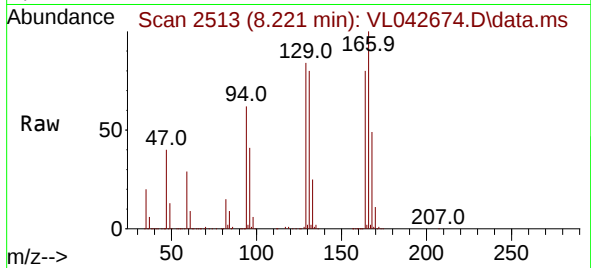
Tgt Ion:130	Resp: 603
Ion Ratio	Lower Upper
130 100	
95 60.7	80.6 121.0#
132 69.0	71.8 107.6#
97 49.9	53.0 79.4#





#52
Tetrachloroethene
Concen: 44.063 ppbv
RT: 8.221 min Scan# 2113
Delta R.T. -0.010 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

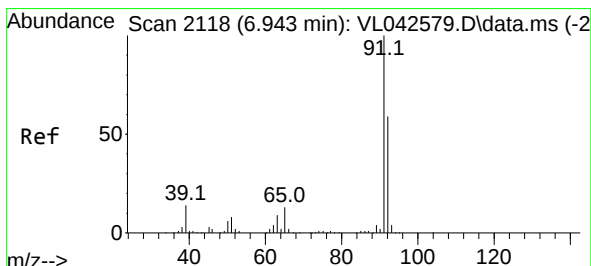
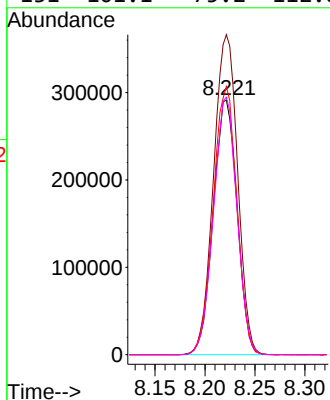
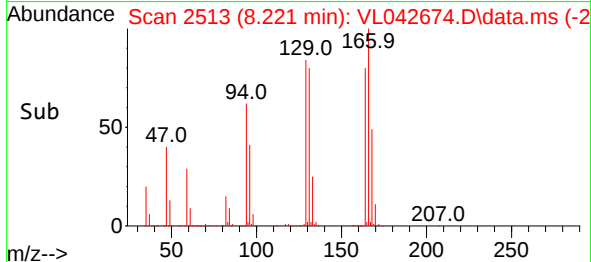
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 48397
Ion Ratio Lower Upper
164 100
166 125.7 100.0 150.0
129 105.3 82.2 123.4
131 101.1 75.2 112.8

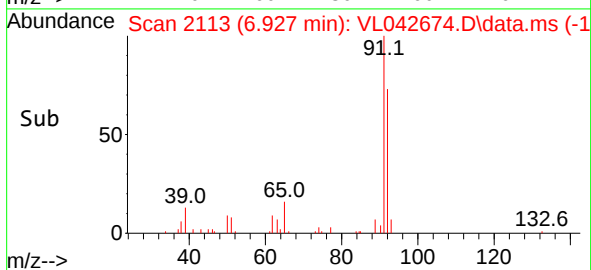
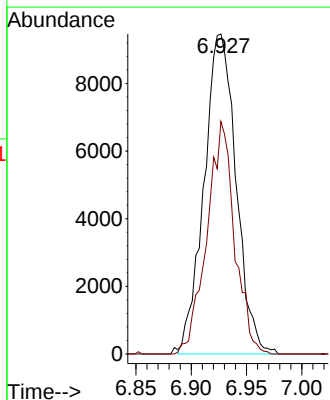
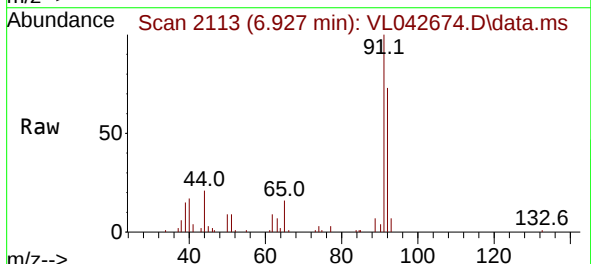
Manual Integrations
APPROVED

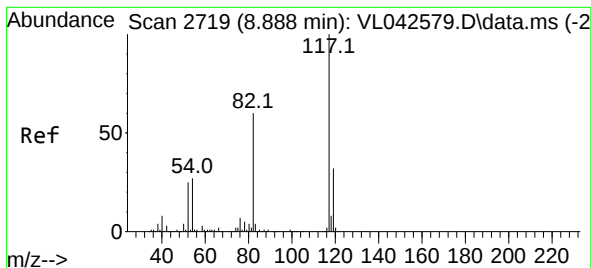
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#53
Toluene
Concen: 0.563 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.016 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

Tgt Ion: 91 Resp: 19125
Ion Ratio Lower Upper
91 100
92 62.7 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2117

Delta R.T. -0.013 min

Lab File: VL042674.D

Acq: 27 Jun 2025 11:30

Instrument :

MSVOA_L

ClientSampleId :

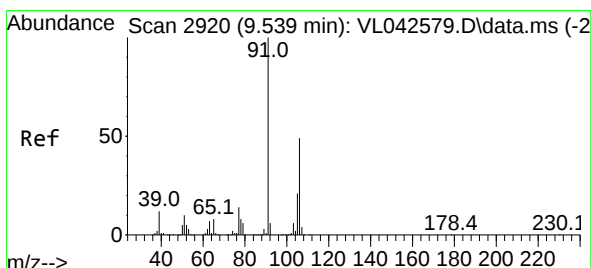
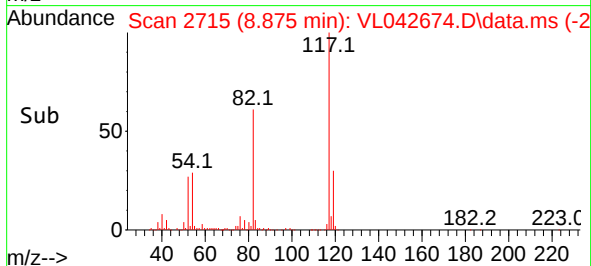
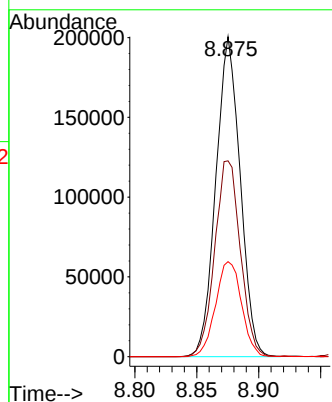
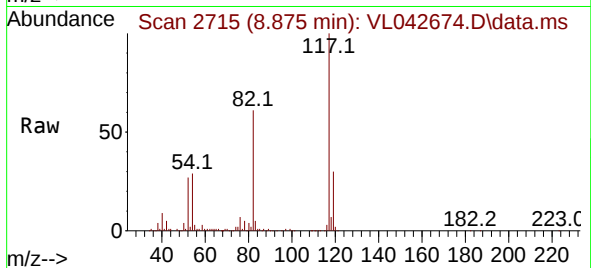
SV1

Tgt Ion:117 Resp: 27460
 Ion Ratio Lower Upper
 117 100
 82 64.5 51.2 76.8
 119 31.8 26.3 39.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025



#59

m/p-Xylene

Concen: 0.524 ppbv

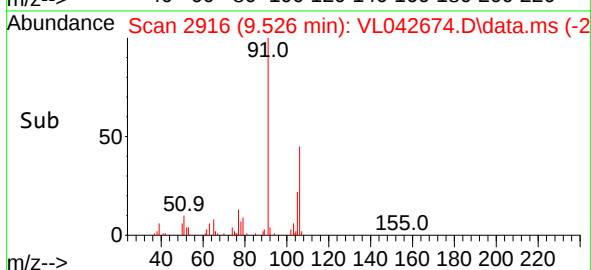
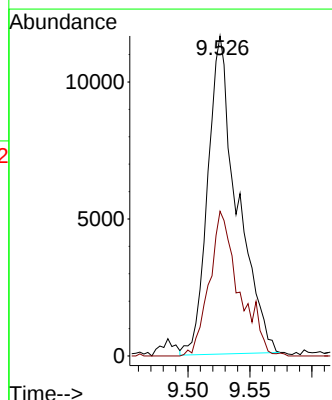
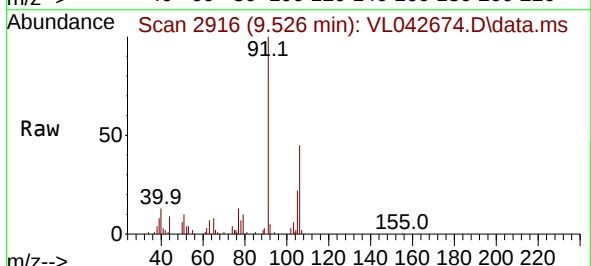
RT: 9.526 min Scan# 2916

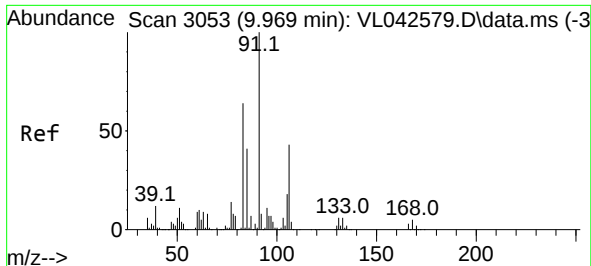
Delta R.T. -0.013 min

Lab File: VL042674.D

Acq: 27 Jun 2025 11:30

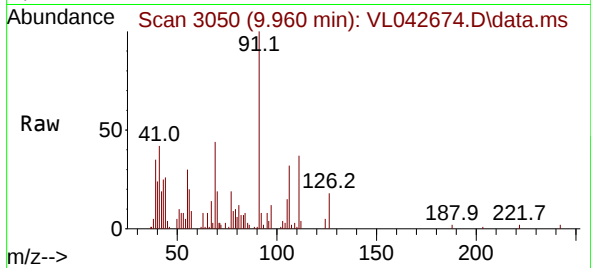
Tgt Ion: 91 Resp: 19208
 Ion Ratio Lower Upper
 91 100
 106 45.9 38.8 58.2





#60
o-Xylene
Concen: 0.282 ppbv
RT: 9.960 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30

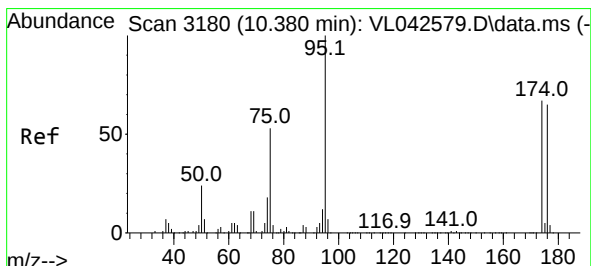
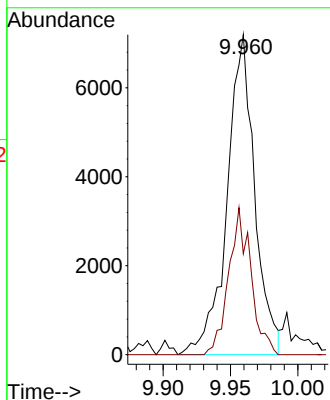
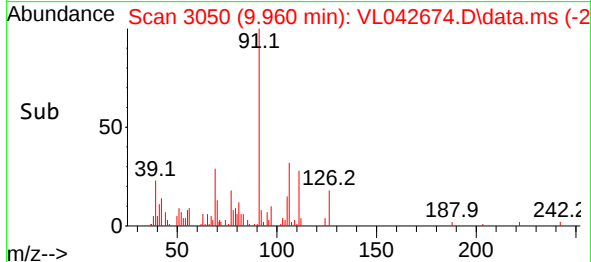
Instrument :
MSVOA_L
ClientSampleId :
SV1



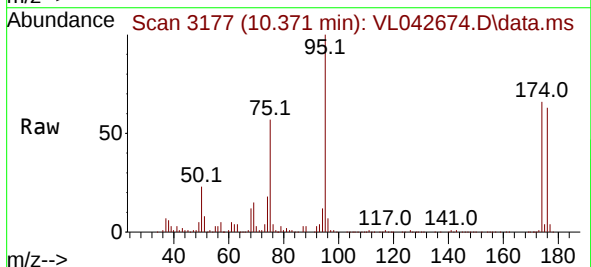
Tgt Ion: 91 Resp: 10309
Ion Ratio Lower Upper
91 100
106 36.9 22.9 68.5

Manual Integrations
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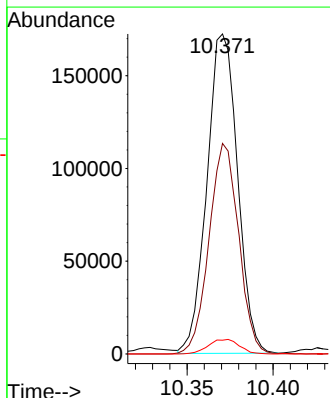
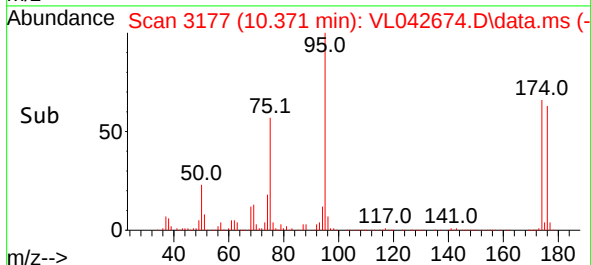
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025

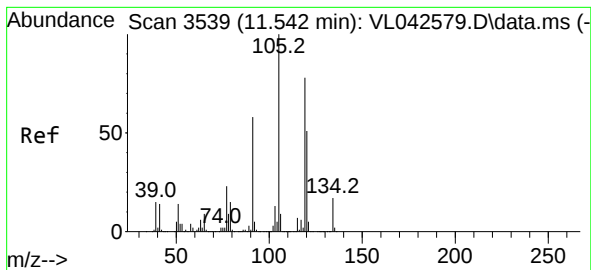


#68
1-Bromo-4-Fluorobenzene
Concen: 10.350 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.010 min
Lab File: VL042674.D
Acq: 27 Jun 2025 11:30



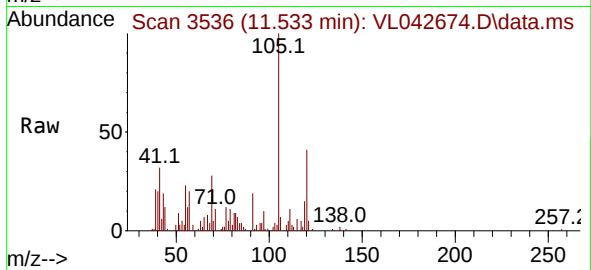
Tgt Ion: 95 Resp: 213051
Ion Ratio Lower Upper
95 100
174 63.7 53.1 79.7
175 4.7 4.2 6.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.156 ppbv
 RT: 11.533 min Scan# 3536
 Delta R.T. -0.010 min
 Lab File: VL042674.D
 Acq: 27 Jun 2025 11:30

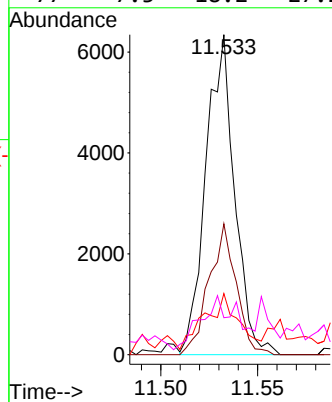
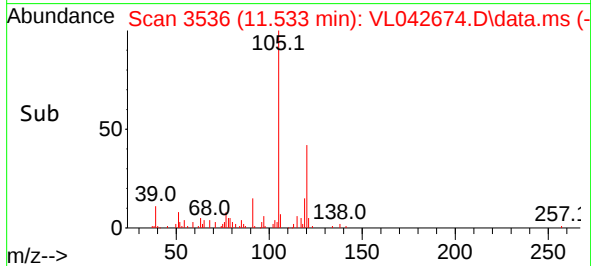
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	654
Ion	Ratio	Lower	Upper
105	100		
120	40.9	40.8	61.2
91	17.4	46.8	70.2
77	7.3	18.2	27.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	06/25/25
Project:	135 W Jericito Trn Pk, Huntington NY	Date Received:	06/26/25
Client Sample ID:	SV1DL	SDG No.:	Q2432
Lab Sample ID:	Q2432-01DL	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
VL042678.D	80		06/27/25 14:36	VL062725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	2.00	5.11	UD	5.11	6.13	ug/m3
75-35-4	1,1-Dichloroethene	12.0	47.6	UD	47.6	159	ug/m3
156-59-2	cis-1,2-Dichloroethene	7.90	31.3	UD	31.3	159	ug/m3
71-55-6	1,1,1-Trichloroethane	1.30	7.09	UD	7.09	13.1	ug/m3
79-01-6	Trichloroethene	1.90	10.2	UD	10.2	12.9	ug/m3
127-18-4	Tetrachloroethene	880	5970	D	8.14	16.3	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135	107%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	112000		2.784			
540-36-3	1,4-Difluorobenzene	287000		3.952			
3114-55-4	Chlorobenzene-d5	253000		8.875			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042678.D
 Acq On : 27 Jun 2025 14:36
 Operator : SY/MD
 Sample : Q2432-01DL 80X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025

Quant Time: Jun 27 23:05:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	111786	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	286704	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	252875	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	203210	10.720	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.200%
Target Compounds						
					Qvalue	
9) Propene	1.482	41	1144	0.150	ppbv #	68
13) Ethanol	1.719	45	481m	0.530	ppbv	
15) Acetone	1.835	43	8986	0.667	ppbv	96
26) Hexane	2.826	57	8417	0.503	ppbv #	37
29) Chloroform	2.845	83	2597m	0.119	ppbv	
34) 2-Butanone	2.557	43	7592	0.371	ppbv	97
52) Tetrachloroethene	8.218	164	116135	11.008	ppbv	98
53) Toluene	6.930	91	4217m	0.129	ppbv	
59) m/p-Xylene	9.519	91	4036m	0.120	ppbv	

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

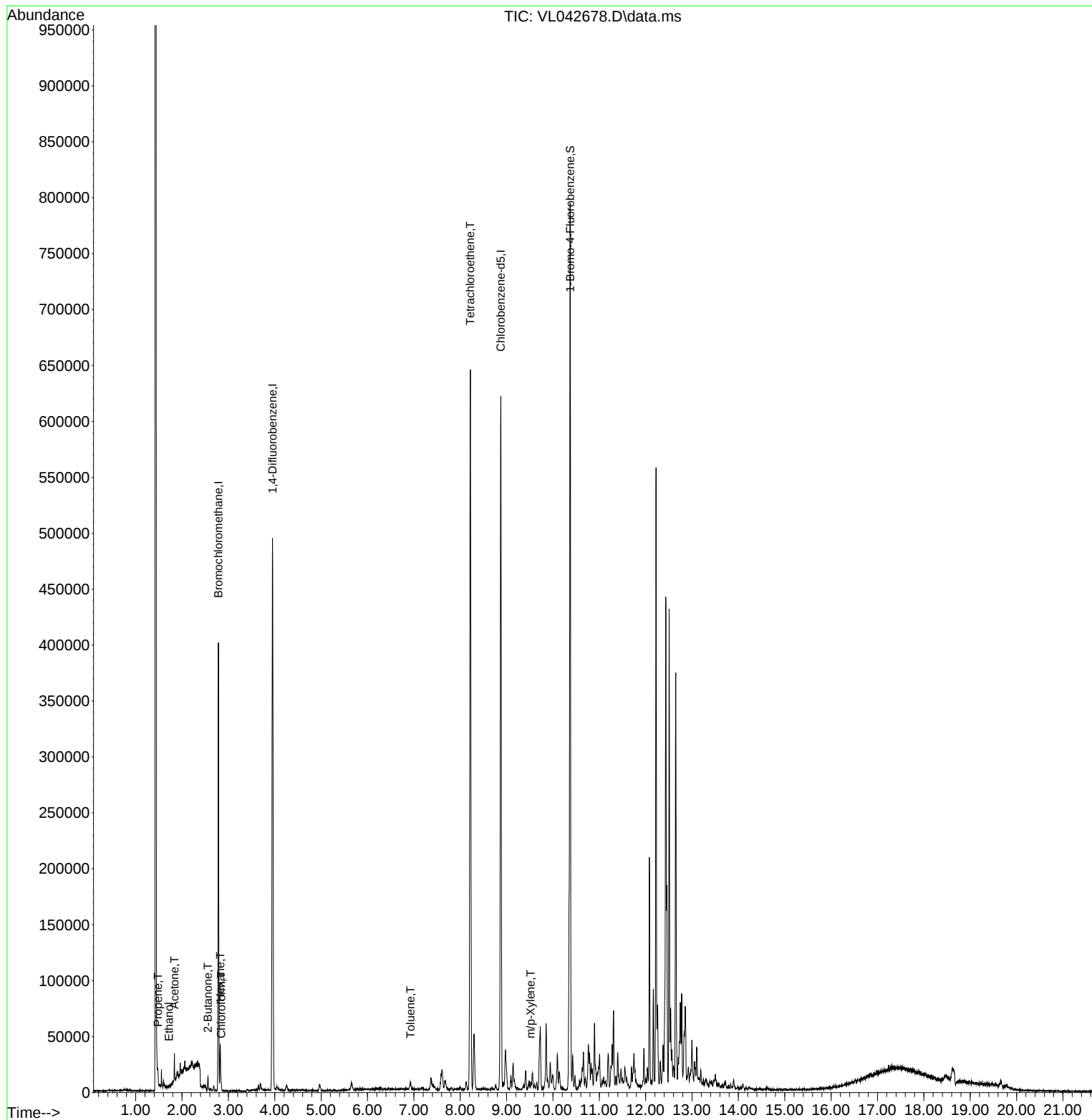
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Data File : VL042678.D
Acq On : 27 Jun 2025 14:36
Operator : SY/MD
Sample : Q2432-01DL 80X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

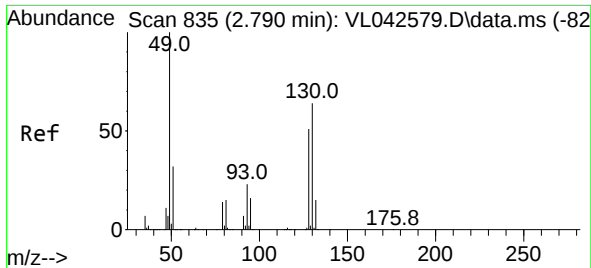
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: Jun 27 23:05:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 06/30/2025
Supervised By : Mahesh Dadoda 06/30/2025





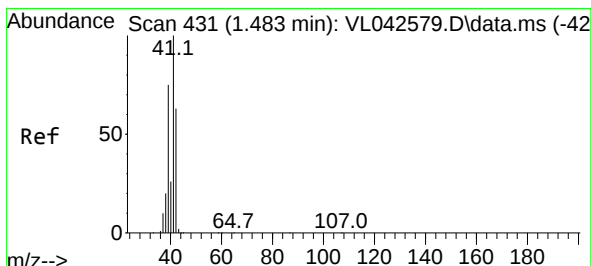
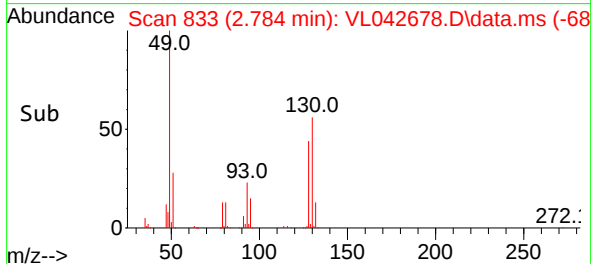
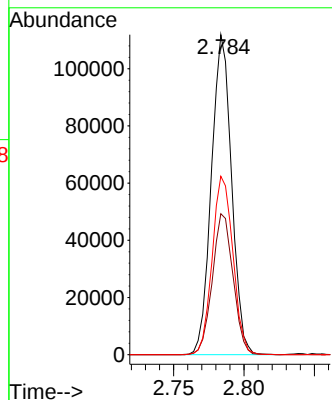
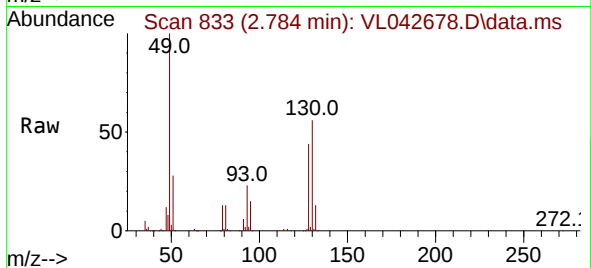
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. -0.006 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 49 Resp: 111780
Ion Ratio Lower Upper
49 100
128 45.2 24.2 72.6
130 57.2 30.4 91.2

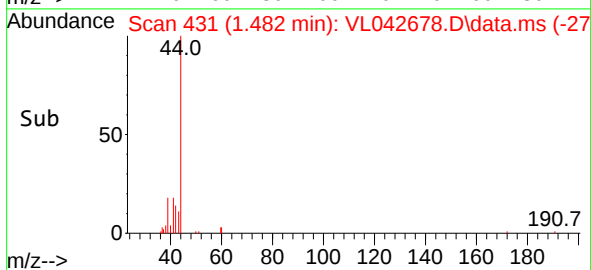
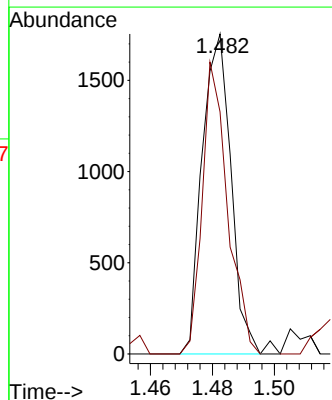
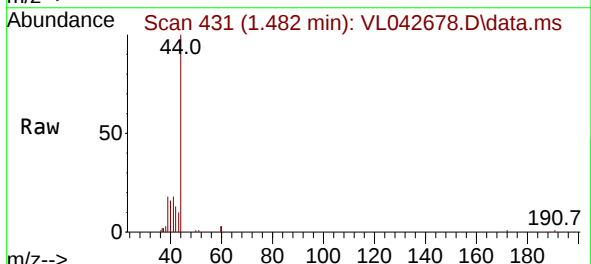
Manual Integrations
APPROVED

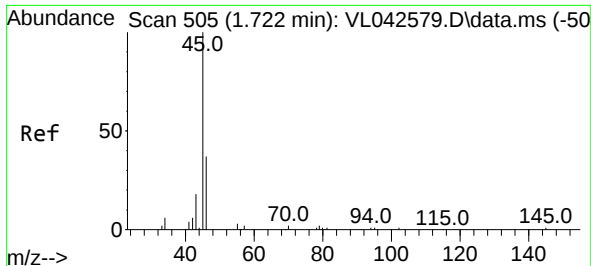
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#9
Propene
Concen: 0.150 ppbv
RT: 1.482 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

Tgt Ion: 41 Resp: 1144
Ion Ratio Lower Upper
41 100
42 92.5 53.3 79.9#





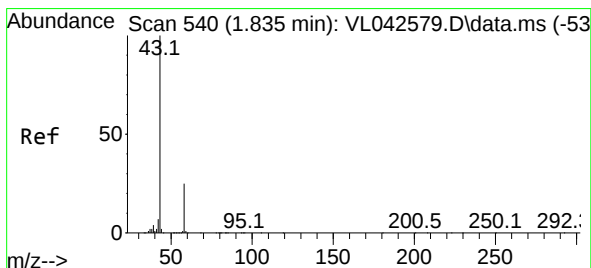
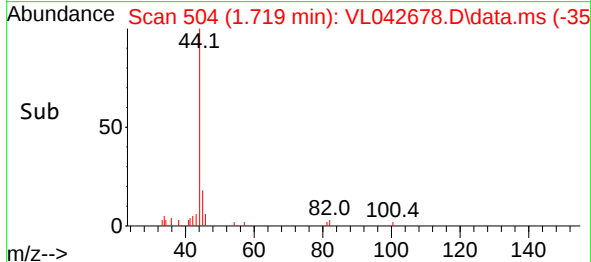
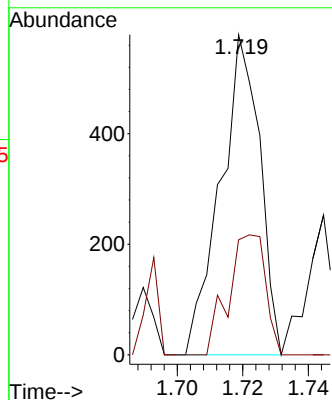
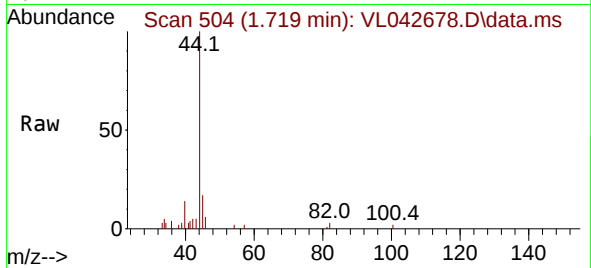
#13
Ethanol
Concen: 0.530 ppbv m
RT: 1.719 min Scan# 50
Delta R.T. -0.003 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 45 Resp: 48
Ion Ratio Lower Upper
45 100
46 45366.3 14.5 58

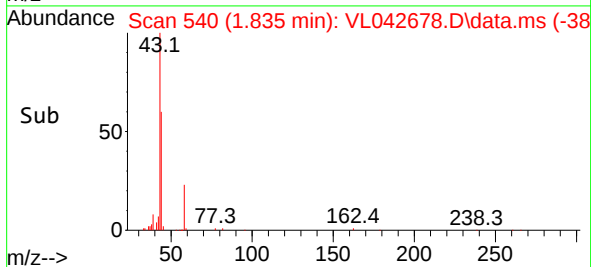
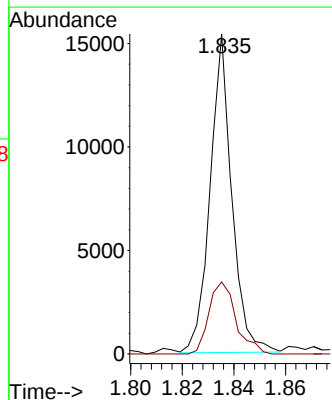
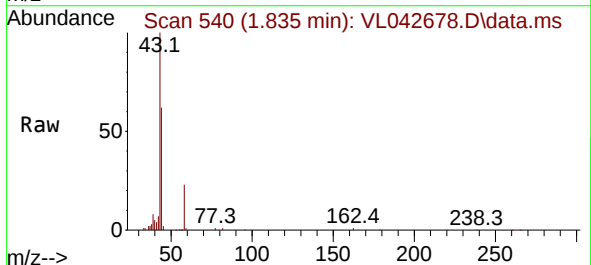
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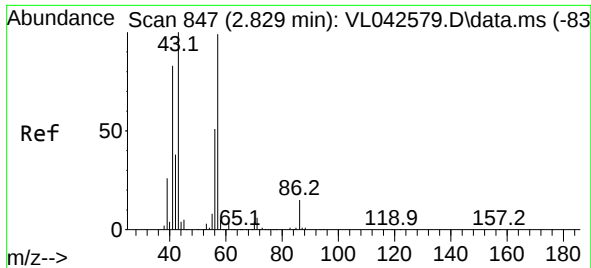
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#15
Acetone
Concen: 0.667 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

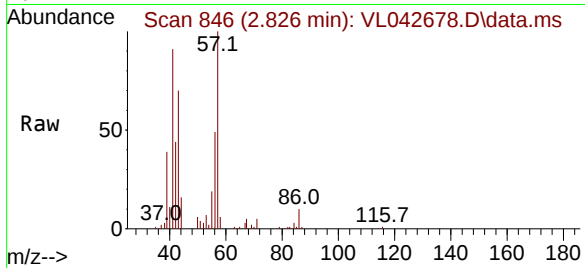
Tgt Ion: 43 Resp: 8986
Ion Ratio Lower Upper
43 100
58 28.1 21.0 31.4





#26
Hexane
Concen: 0.503 ppbv
RT: 2.826 min Scan# 841
Delta R.T. -0.003 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

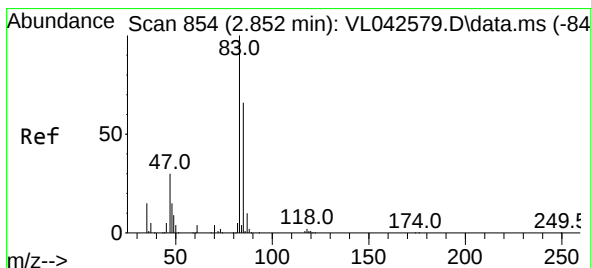
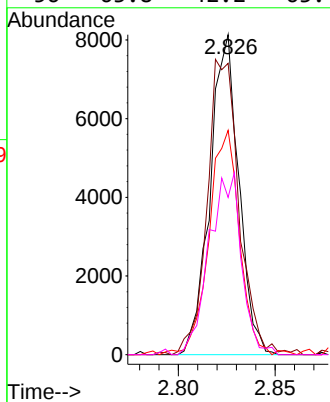
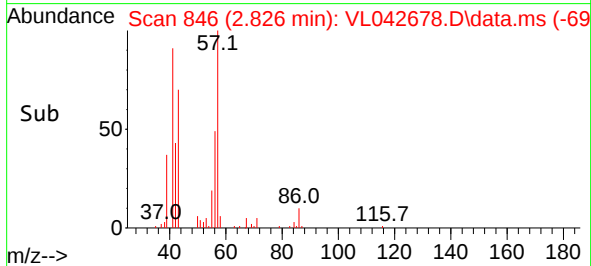
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 57 Resp: 841
Ion Ratio Lower Upper
57 100
41 102.6 70.6 106.0
43 74.6 181.1 271.7
56 63.8 42.2 63.4#

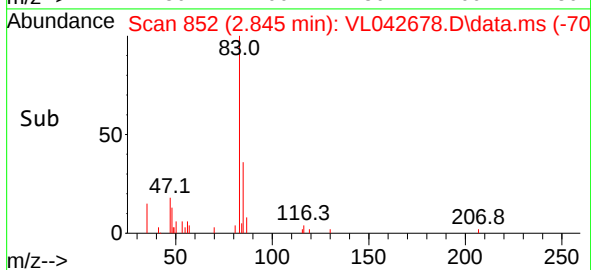
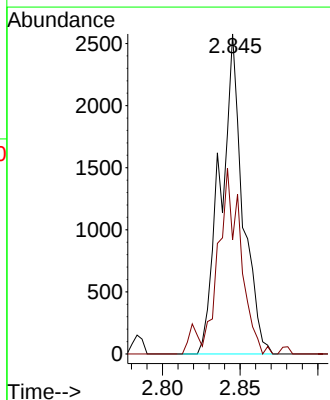
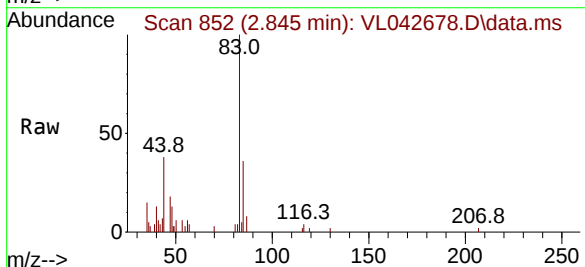
Manual Integrations
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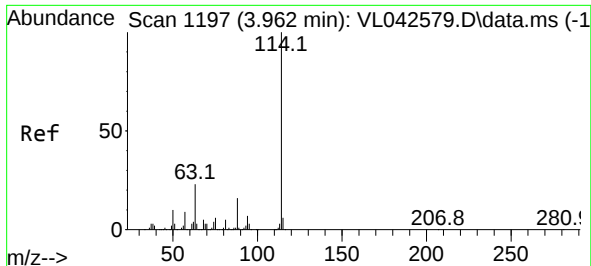
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#29
Chloroform
Concen: 0.119 ppbv m
RT: 2.845 min Scan# 852
Delta R.T. -0.007 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

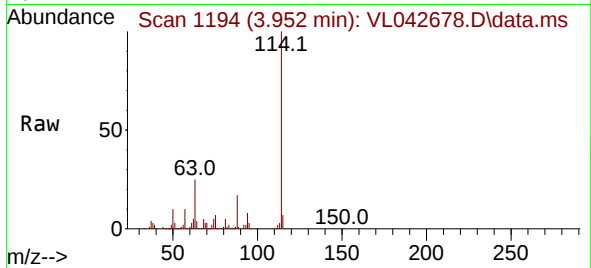
Tgt Ion: 83 Resp: 2597
Ion Ratio Lower Upper
83 100
85 35.7 52.8 79.2#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.010 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

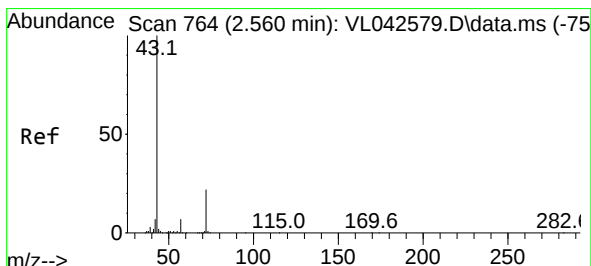
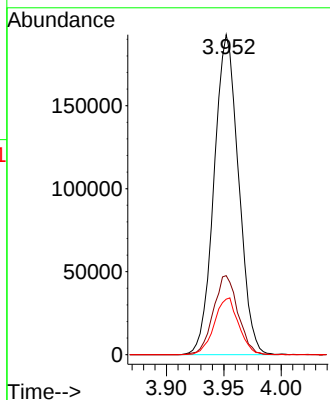
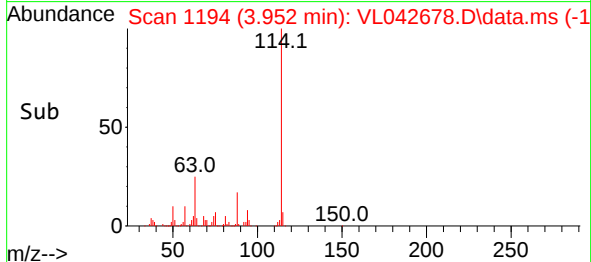
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion:114 Resp: 286704
Ion Ratio Lower Upper
114 100
63 24.8 19.0 28.6
88 17.6 13.6 20.4

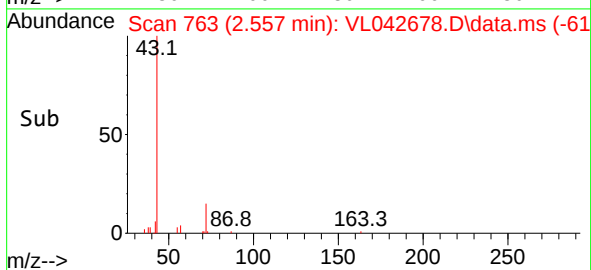
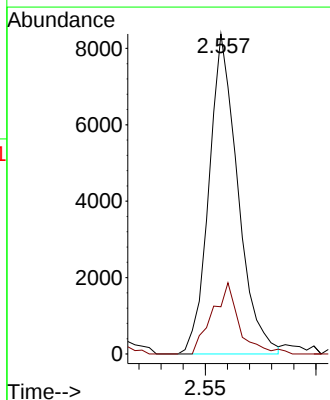
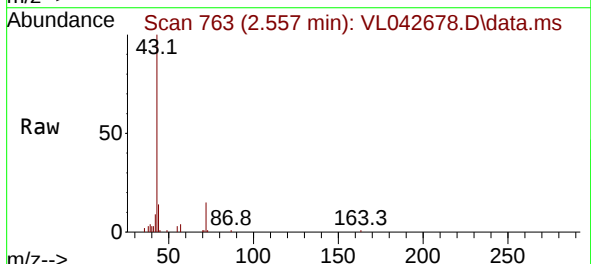
Manual Integrations
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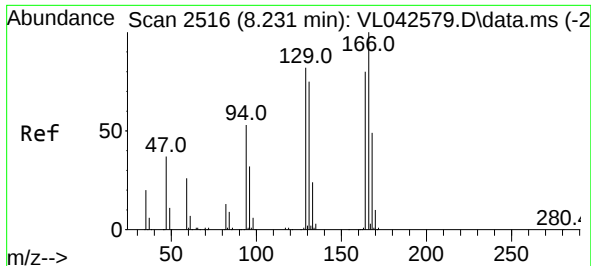
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#34
2-Butanone
Concen: 0.371 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.003 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

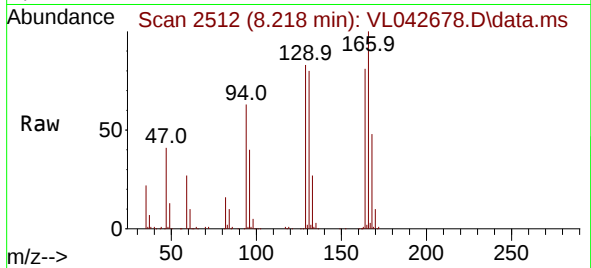
Tgt Ion: 43 Resp: 7592
Ion Ratio Lower Upper
43 100
72 20.8 17.7 26.5





#52
Tetrachloroethene
Concen: 11.008 ppbv
RT: 8.218 min Scan# 2114
Delta R.T. -0.013 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

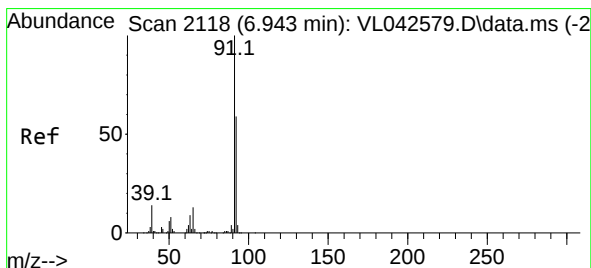
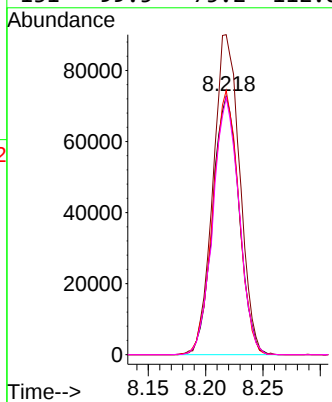
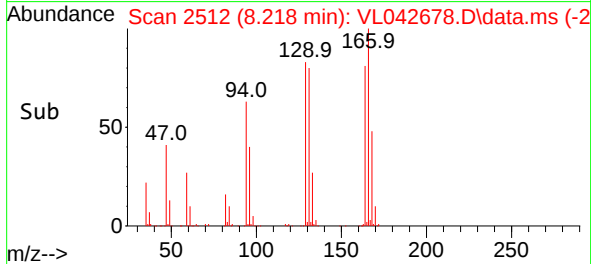
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion:164 Resp: 11613
Ion Ratio Lower Upper
164 100
166 123.8 100.0 150.0
129 102.2 82.2 123.4
131 99.5 75.2 112.8

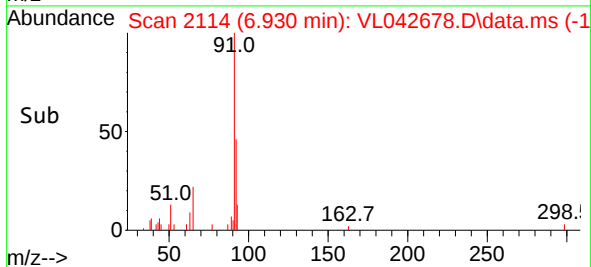
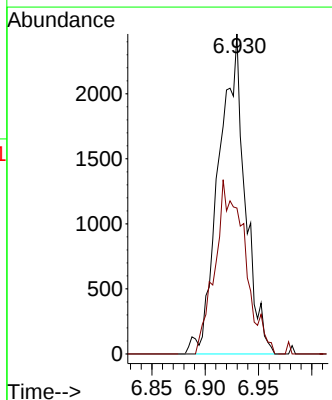
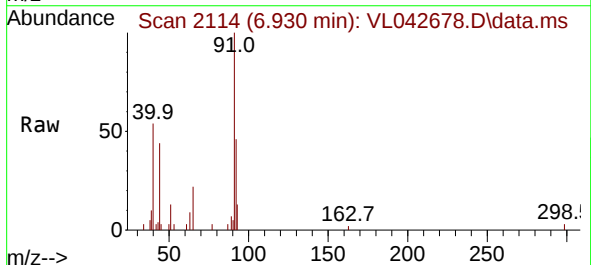
Manual Integrations
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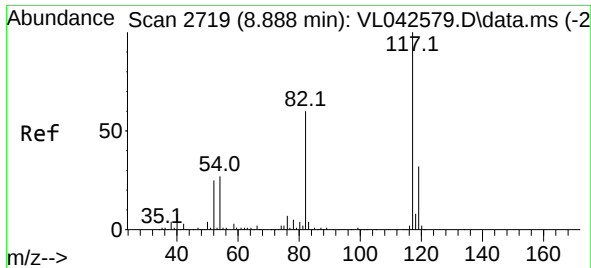
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#53
Toluene
Concen: 0.129 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. -0.013 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

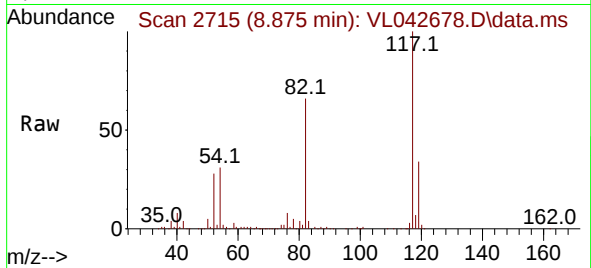
Tgt Ion: 91 Resp: 4217
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.4#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

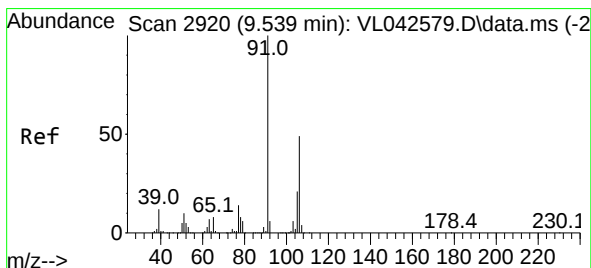
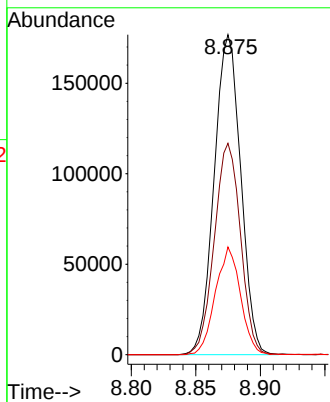
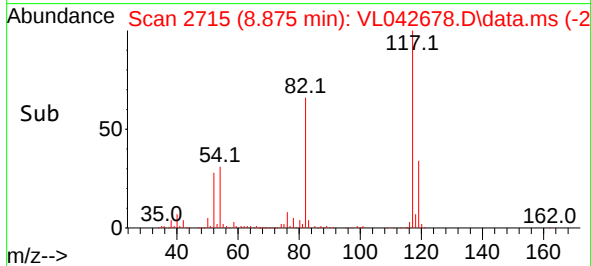
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion:117 Resp: 25287
Ion Ratio Lower Upper
117 100
82 65.2 51.2 76.8
119 31.9 26.3 39.5

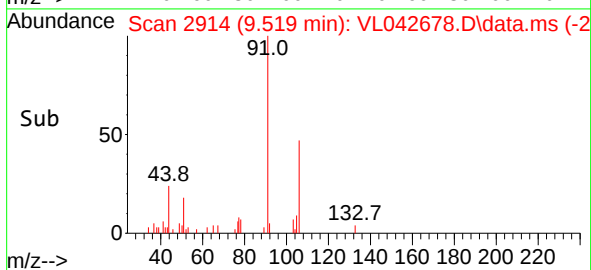
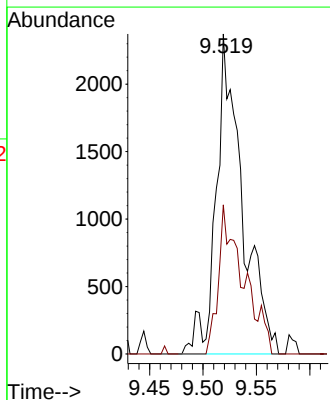
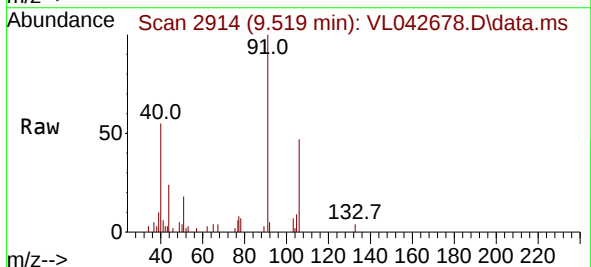
Manual Integrations
APPROVED

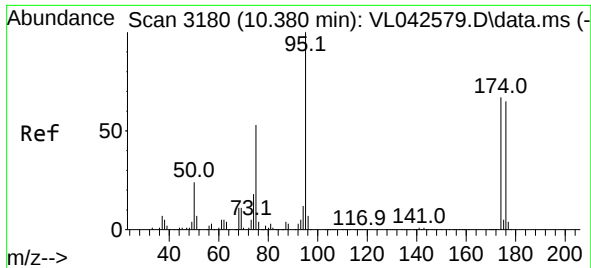
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#59
m/p-Xylene
Concen: 0.120 ppbv m
RT: 9.519 min Scan# 2914
Delta R.T. -0.020 min
Lab File: VL042678.D
Acq: 27 Jun 2025 14:36

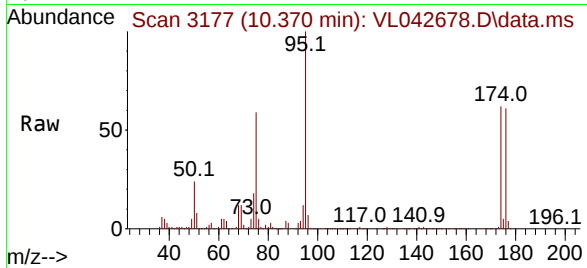
Tgt Ion: 91 Resp: 4036
Ion Ratio Lower Upper
91 100
106 44.0 38.8 58.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.720 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.010 min
 Lab File: VL042678.D
 Acq: 27 Jun 2025 14:36

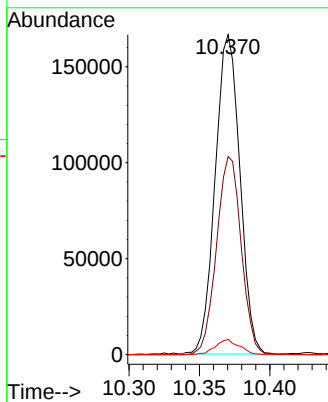
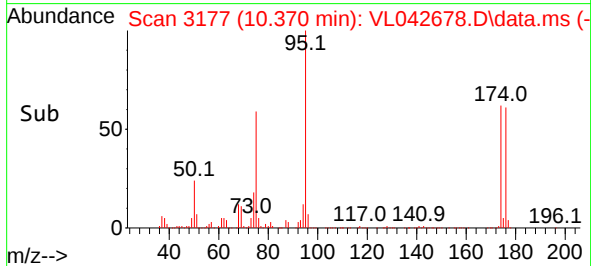
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion: 95 Resp: 203210
 Ion Ratio Lower Upper
 95 100
 174 61.9 53.1 79.7
 175 4.6 4.2 6.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG No.: Q2432

Instrument ID: MSVOA_L

Calibration Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N

Calibration Time(s): 11:09 14:24

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

LAB FILE ID:		RRF010 = VL042579.D		RRF002 = VL042580.D		RRF001 = VL042581.D		
		RRF0.5 = VL042582.D		RRF0.1 = VL042583.D		RRF.03 = VL042584.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.437	0.468	0.487	0.529	0.465	0.675	0.496	17.7
1,1-Dichloroethene	0.377	0.437	0.451	0.451			0.416	10.1
cis-1,2-Dichloroethene	1.271	1.465	1.461	1.419			1.370	8
1,1,1-Trichloroethane	1.794	2.029	2.043	2.004	2.083	2.207	1.990	7.9
Trichloroethene	0.376	0.438	0.455	0.468	0.432	0.389	0.419	9.3
Tetrachloroethene	0.333	0.390	0.383	0.391	0.407	0.351	0.368	8.9
1-Bromo-4-Fluorobenzene	0.744	0.741	0.751	0.755	0.751	0.752	0.750	0.7

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL052925AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri May 30 02:01:56 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042584.D 0.1 =VL042583.D 0.5 =VL042582.D 1 =VL042581.D 2 =VL042580.D 10 =VL042579.D 15 =VL042585.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.257	1.353	1.300	1.135	1.101	1.229	8.78
3) Chlorodifluoro...			1.881	1.861	1.826	1.475	1.420	1.693	13.32
4) Chloromethane			0.502	0.529	0.507	0.461	0.434	0.487	7.85
5) T Vinyl Chloride	0.675	0.465	0.529	0.487	0.468	0.437	0.409	0.496	17.69
6) T Bromomethane			0.310	0.251	0.230	0.216	0.200	0.241	17.69
7) Chloroethane			0.214	0.212	0.198	0.175	0.164	0.193	11.60
8) T Dichlorotetra...			1.099	1.098	1.075	0.948	0.900	1.024	9.11
9) T Propene			0.710	0.728	0.722	0.650	0.599	0.682	8.18
10) T Heptane			2.079	2.082	1.981	1.777	1.688	1.921	9.37
11) T Trichlorofluor...			1.193	1.209	1.202	1.071	1.043	1.144	6.98
12) T 1,1,2-Trichlor...			0.903	0.980	0.951	0.838	0.818	0.898	7.79
13) Ethanol			0.114	0.095	0.092	0.058	0.047	0.081	33.96
14) T Bromoethene			0.359	0.346	0.362	0.317	0.304	0.338	7.71
15) T Acetone			1.404	1.484	1.299	0.928	0.908	1.205	22.39
16) T 1,3-Butadiene			0.649	0.636	0.597	0.491	0.480	0.571	14.07
17) tert-Butyl alc...			1.337	1.334	1.279	1.237	1.088	1.255	8.14
18) T 1,1-Dichloroet...			0.451	0.451	0.437	0.377	0.364	0.416	10.11
19) T Isopropyl Alcohol			0.825	0.782	0.742	0.659	0.593	0.720	13.03
20) T Methylene Chlo...			0.473	0.457	0.418	0.326	0.314	0.398	18.57
21) T Allyl Chloride			0.924	0.921	0.866	0.789	0.749	0.850	9.22
22) T trans-1,2-Dich...			0.496	0.517	0.466	0.427	0.418	0.465	9.21
23) T Vinyl Acetate			1.750	1.663	1.686	1.458	1.584	1.628	6.89
24) T 1,1-Dichloroet...			0.996	1.046	1.004	0.903	0.833	0.957	9.03
25) T Ethyl Acetate			3.496	3.585	3.412	3.054	2.934	3.296	8.67
26) T Hexane			1.690	1.638	1.526	1.350	1.286	1.498	11.76
27) T Carbon Disulfide			1.174	1.267	1.198	1.069	1.040	1.150	8.16
28) T Methyl tert-Bu...			0.664	0.693	0.621	0.550	0.511	0.608	12.59
29) T Chloroform			2.099	2.120	2.034	1.755	1.731	1.948	9.74
30) T Cyclohexane			1.318	1.363	1.288	1.146	1.092	1.242	9.38
31) T cis-1,2-Dichlo...			1.419	1.461	1.465	1.271	1.235	1.370	7.96
32) T 1,1,1-Trichlor...	2.207	2.083	2.004	2.043	2.029	1.794	1.771	1.990	7.86

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35) T Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36) T Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37) T 1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38) T Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39) T 1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL052925AIR.M											
40)	T	1,4-Dioxane			0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran			0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...			0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...			0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...			1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...			0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...			0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...			0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...			0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform			0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...			1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone			0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351	0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene			1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane		0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene			1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene			1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene			1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene			1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene			0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene			2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054	0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene			0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene			1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride			0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene			2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752	0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...			2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene			2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene			1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene			1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...			1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...			1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...			1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...			0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...			1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...			0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene		1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...			0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...			0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 212758 9.929 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: May 30 01:17:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	104930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	210508	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv	99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv	98
4) Chloromethane	1.534	50	10641	2.084	ppbv	98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv	98
6) Bromomethane	1.670	94	4819	1.903	ppbv	83
7) Chloroethane	1.706	64	4162	2.059	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv	98
9) Propene	1.483	41	15155	2.119	ppbv	96
10) Heptane	4.988	43	41577	2.060	ppbv	97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv	99
13) Ethanol	1.722	45	1925m	2.411	ppbv	
14) Bromoethene	1.784	108	7607	2.146	ppbv #	94
15) Acetone	1.839	43	27254	2.156	ppbv	100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv	95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv	96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv	95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv #	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv	95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv	97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv	98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv	99
26) Hexane	2.829	57	32018	2.037	ppbv	97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv #	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv #	90
29) Chloroform	2.852	83	42693	2.089	ppbv	93
30) Cyclohexane	3.858	84	27030	2.075	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv	93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv	99
34) 2-Butanone	2.564	43	46279	2.093	ppbv	100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv	95
36) Benzene	3.661	78	63709	2.086	ppbv	96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv	97
38) Trichloroethene	4.554	130	27139	2.075	ppbv	95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv	98
40) 1,4-Dioxane	4.603	88	10426m	2.173	ppbv	
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv	96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv	90
43) Methyl Methacrylate	4.894	69	25156m	2.126	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv	100
45) t-1,3-Dichloropropene	6.432	75	28273m	2.085	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv	94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv	99
49) Bromoform	9.487	173	34270	2.122	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv	99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv #	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv	95
53) Toluene	6.940	91	74240	2.104	ppbv	99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv	97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv	95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv	96
59) m/p-Xylene	9.558	91	162694m	4.288	ppbv	
60) o-Xylene	9.969	91	81886	2.164	ppbv	97
61) Styrene	9.879	104	38542	2.154	ppbv	99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv	99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv	100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv	99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv	98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv	99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv	99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv	100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv	99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv	98
79) Naphthalene	13.517	128	101451	2.494	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 209886 10.021 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv	95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv	99
4) Chloromethane	1.531	50	5387	1.087	ppbv	89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv	99
6) Bromomethane	1.667	94	2560	1.041	ppbv	99
7) Chloroethane	1.703	64	2164	1.103	ppbv #	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv	98
9) Propene	1.483	41	7413	1.068	ppbv	97
10) Heptane	4.981	43	21213m	1.083	ppbv	
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv	98
13) Ethanol	1.722	45	968	1.249	ppbv #	61
14) Bromoethene	1.780	108	3524	1.024	ppbv #	97
15) Acetone	1.835	43	15114	1.232	ppbv	98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv	92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv #	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv	85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv #	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv	98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv #	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv	98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv #	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv	99
26) Hexane	2.826	57	16686	1.094	ppbv	99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv #	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv	93
29) Chloroform	2.849	83	21594	1.088	ppbv	100
30) Cyclohexane	3.858	84	13889	1.098	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv	89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv	97
34) 2-Butanone	2.560	43	23148	1.057	ppbv	99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv	89
36) Benzene	3.658	78	32310	1.068	ppbv	99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv	97
38) Trichloroethene	4.551	130	13969	1.078	ppbv	98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv	87
40) 1,4-Dioxane	4.600	88	5479m	1.153	ppbv	
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv	99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv #	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	56202m	1.087	ppbv	
45) t-1,3-Dichloropropene	6.415	75	13988m	1.041	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	17453m	1.037	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	12328m	1.065	ppbv	
48) Dibromochloromethane	7.393	129	19719	1.064	ppbv	99
49) Bromoform	9.484	173	15937	0.996	ppbv	96
50) 4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv	99
51) 2-Hexanone	7.445	43	25135	1.043	ppbv #	96
52) Tetrachloroethene	8.228	164	11770	1.041	ppbv	97
53) Toluene	6.936	91	36540	1.045	ppbv	97
54) 1,2-Dibromoethane	7.658	107	18114	1.055	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv	95
57) Chlorobenzene	8.927	112	28714	1.058	ppbv	100
58) Ethyl Benzene	9.357	91	49899	1.053	ppbv	96
59) m/p-Xylene	9.535	91	78893m	2.115	ppbv	
60) o-Xylene	9.966	91	39398	1.059	ppbv	99
61) Styrene	9.875	104	18371	1.045	ppbv	100
62) Isopropylbenzene	10.542	105	59492	1.083	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv	99
64) n-propylbenzene	10.992	120	15107	1.026	ppbv	90
65) tert-Butylbenzene	11.532	119	53720	1.077	ppbv	99
66) Benzyl Chloride	11.617	91	6617	1.029	ppbv	98
67) sec-Butylbenzene	11.769	105	76631	1.093	ppbv	100
69) p-Isopropyltoluene	11.927	119	62849	1.070	ppbv	100
70) n-Butylbenzene	12.283	91	63350	1.093	ppbv	99
71) 2-Chlorotoluene	10.901	91	45250	1.080	ppbv	99
72) 4-Ethyltoluene	11.128	105	50214	1.083	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv #	90
75) 1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv	98
79) Naphthalene	13.517	128	45649	1.141	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv	97

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

Manual Integrations APPROVED

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv	98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv	96
4) Chloromethane	1.531	50	2584	0.516	ppbv	97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv	96
6) Bromomethane	1.667	94	1594	0.642	ppbv #	74
7) Chloroethane	1.706	64	1099	0.554	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv	97
9) Propene	1.483	41	3653	0.521	ppbv	87
10) Heptane	4.988	43	10697	0.540	ppbv	98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv	89
13) Ethanol	1.722	45	586m	0.748	ppbv	
14) Bromoethene	1.781	108	1849	0.532	ppbv #	84
15) Acetone	1.836	43	7225	0.583	ppbv	95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv	89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv #	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv #	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv #	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv	93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv	96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv	93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv #	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv #	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv	98
26) Hexane	2.826	57	8694	0.564	ppbv	96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv #	81
29) Chloroform	2.849	83	10798	0.539	ppbv	98
30) Cyclohexane	3.855	84	6784m	0.531	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv	98
34) 2-Butanone	2.564	43	11569	0.533	ppbv	99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv	92
36) Benzene	3.661	78	16000	0.533	ppbv	95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv	98
38) Trichloroethene	4.554	130	7126	0.555	ppbv	92
39) 1,2-Dichloropropane	4.318	63	6317m	0.570	ppbv	
40) 1,4-Dioxane	4.609	88	2618m	0.555	ppbv	
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv	96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv	94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:19:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	8637m	0.518	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	6189m	0.539	ppbv	
48) Dibromochloromethane	7.399	129	9133m	0.497	ppbv	
49) Bromoform	9.484	173	7974	0.503	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	15782m	0.522	ppbv	
51) 2-Hexanone	7.451	43	11458	0.479	ppbv #	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv	87
53) Toluene	6.940	91	18429	0.532	ppbv	100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv	89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv	89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv	88
59) m/p-Xylene	9.555	91	38955m	1.057	ppbv	
60) o-Xylene	9.966	91	19745	0.537	ppbv	99
61) Styrene	9.875	104	8639	0.497	ppbv	99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv	97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv	97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv	99
66) Benzyl Chloride	11.614	91	2753m	0.433	ppbv	
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv	98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv	99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv	98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv	100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv	97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv	86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv #	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv	97
79) Naphthalene	13.517	128	18853	0.477	ppbv	96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042583.D
 Acq On : 29 May 2025 13:19
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
38) Trichloroethene	4.548	130	1305m	0.102	ppbv	
52) Tetrachloroethene	8.238	164	1230m	0.111	ppbv	
54) 1,2-Dibromoethane	7.658	107	1737m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv	96
79) Naphthalene	13.523	128	2980m	0.076	ppbv	

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

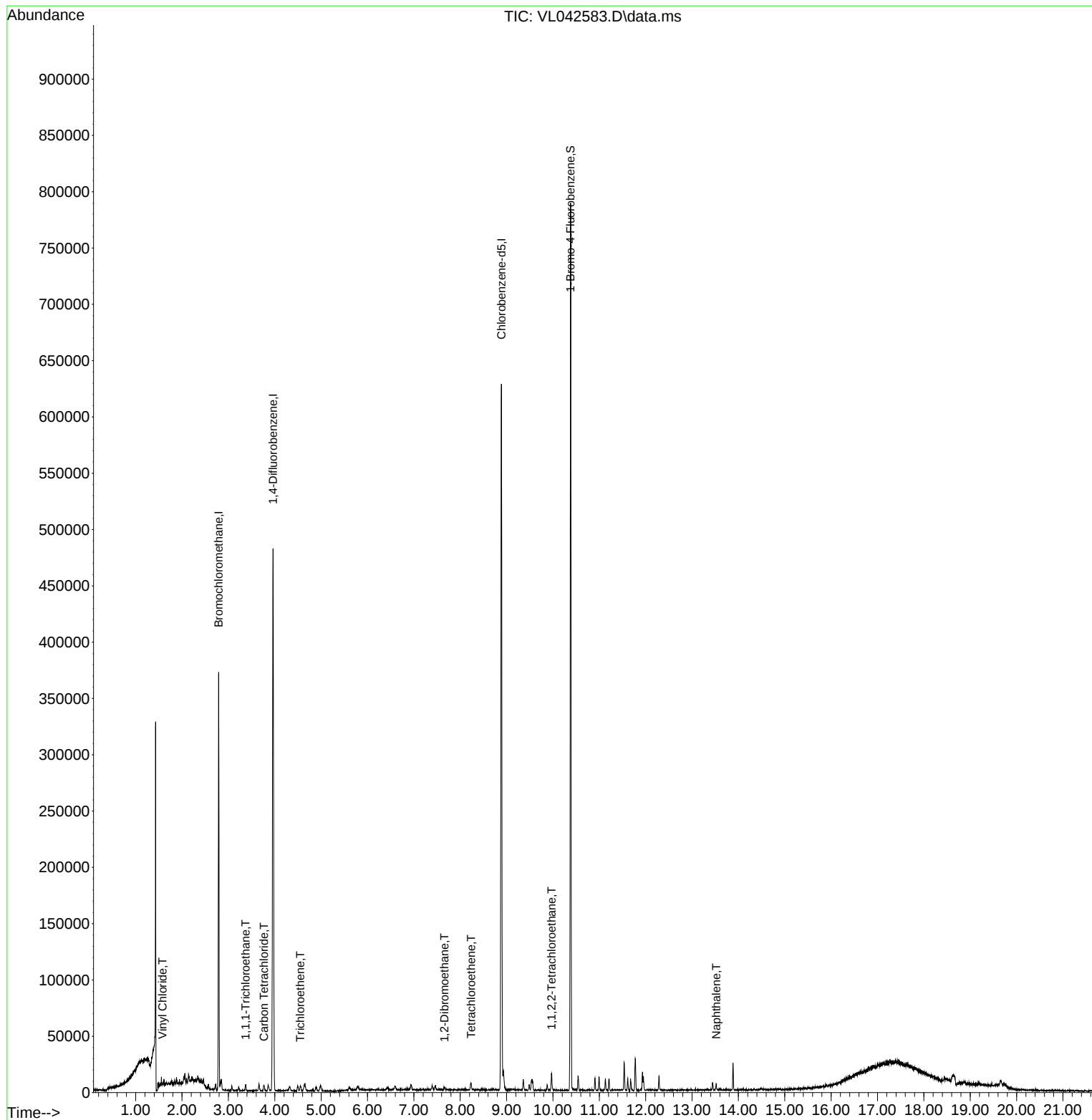
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042584.D
 Acq On : 29 May 2025 13:51
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.577	62	209	0.041	ppbv #	77
32) 1,1,1-Trichloroethane	3.373	97	683m	0.034	ppbv	
35) Carbon Tetrachloride	3.764	117	623m	0.031	ppbv	
38) Trichloroethene	4.541	130	356m	0.028	ppbv	
52) Tetrachloroethene	8.228	164	321m	0.029	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv #	82

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

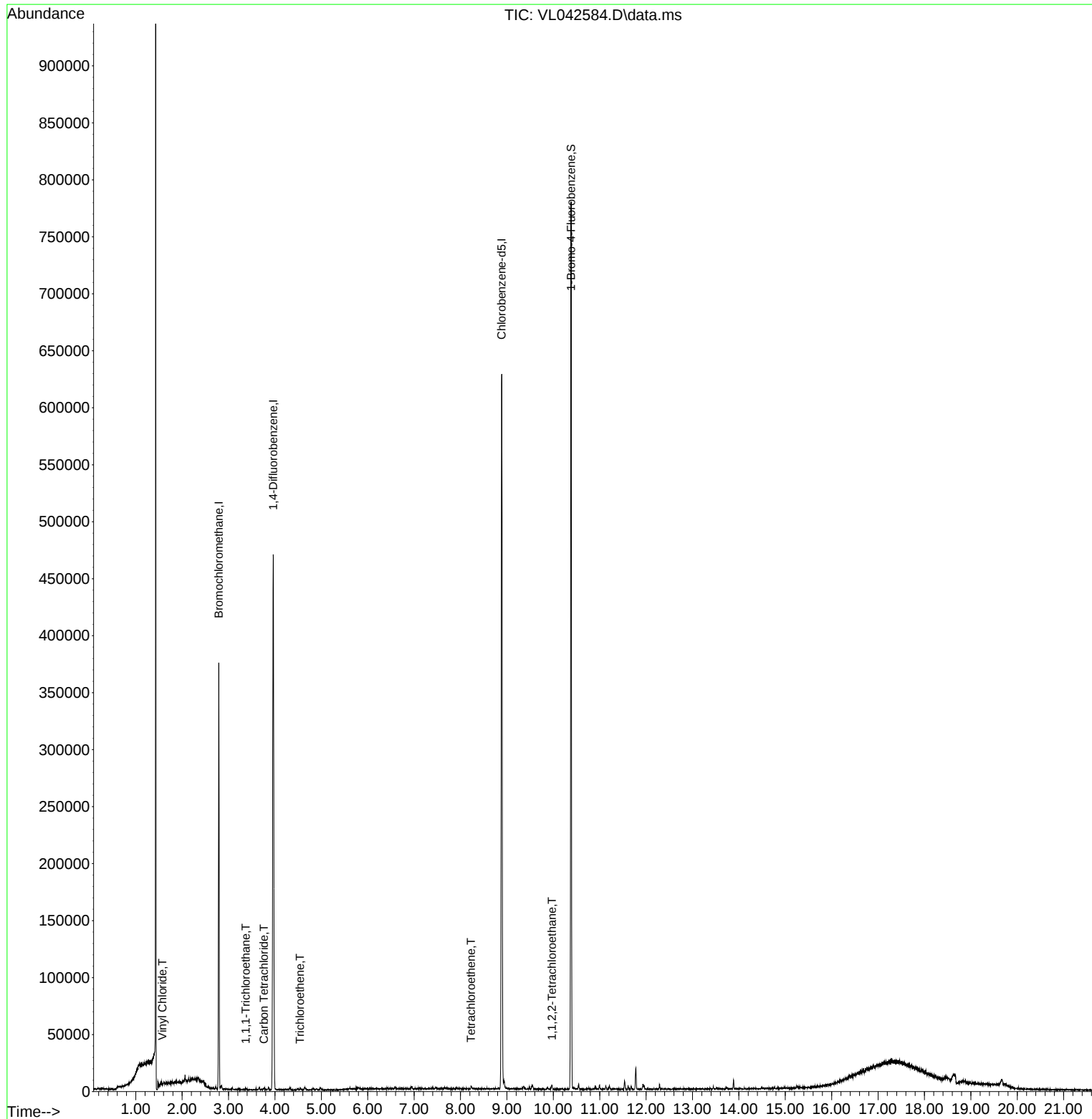
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
Supervised By : Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 207170 10.053 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv	98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv	99
4) Chloromethane	1.534	50	67662	13.380	ppbv	99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv	98
6) Bromomethane	1.667	94	31141	12.420	ppbv	100
7) Chloroethane	1.706	64	25591	12.785	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv	99
9) Propene	1.483	41	93357	13.181	ppbv	97
10) Heptane	4.988	43	263111	13.165	ppbv	100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv	99
13) Ethanol	1.722	45	7390m	9.346	ppbv	
14) Bromoethene	1.784	108	47382	13.501	ppbv	99
15) Acetone	1.835	43	141460	11.302	ppbv	98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv	100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv	100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv	99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv	98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv	97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv	97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv	99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv	99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv	99
26) Hexane	2.829	57	200386	12.876	ppbv	99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv	100
29) Chloroform	2.852	83	269752	13.328	ppbv	98
30) Cyclohexane	3.861	84	170261	13.196	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv	99
34) 2-Butanone	2.560	43	294628	13.689	ppbv	99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv	98
36) Benzene	3.661	78	404641	13.615	ppbv	99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv	100
38) Trichloroethene	4.551	130	168824	13.263	ppbv	91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv	98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv #	98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv	99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv	96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.561	91	996602m	27.151	ppbv	
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 203743 9.852 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	5315m	6.387	ppbv	
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	125588m	9.538	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48) Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49) Bromoform	9.493	173	152725	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51) 2-Hexanone	7.444	43	228036	9.655	ppbv	98
52) Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53) Toluene	6.943	91	319640	9.329	ppbv	99
54) 1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57) Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58) Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59) m/p-Xylene	9.558	91	676743m	18.377	ppbv	
60) o-Xylene	9.972	91	333107	9.069	ppbv	100
61) Styrene	9.878	104	163167	9.396	ppbv	100
62) Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64) n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65) tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66) Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67) sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69) p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70) n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71) 2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72) 4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79) Naphthalene	13.516	128	383192	9.666	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

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

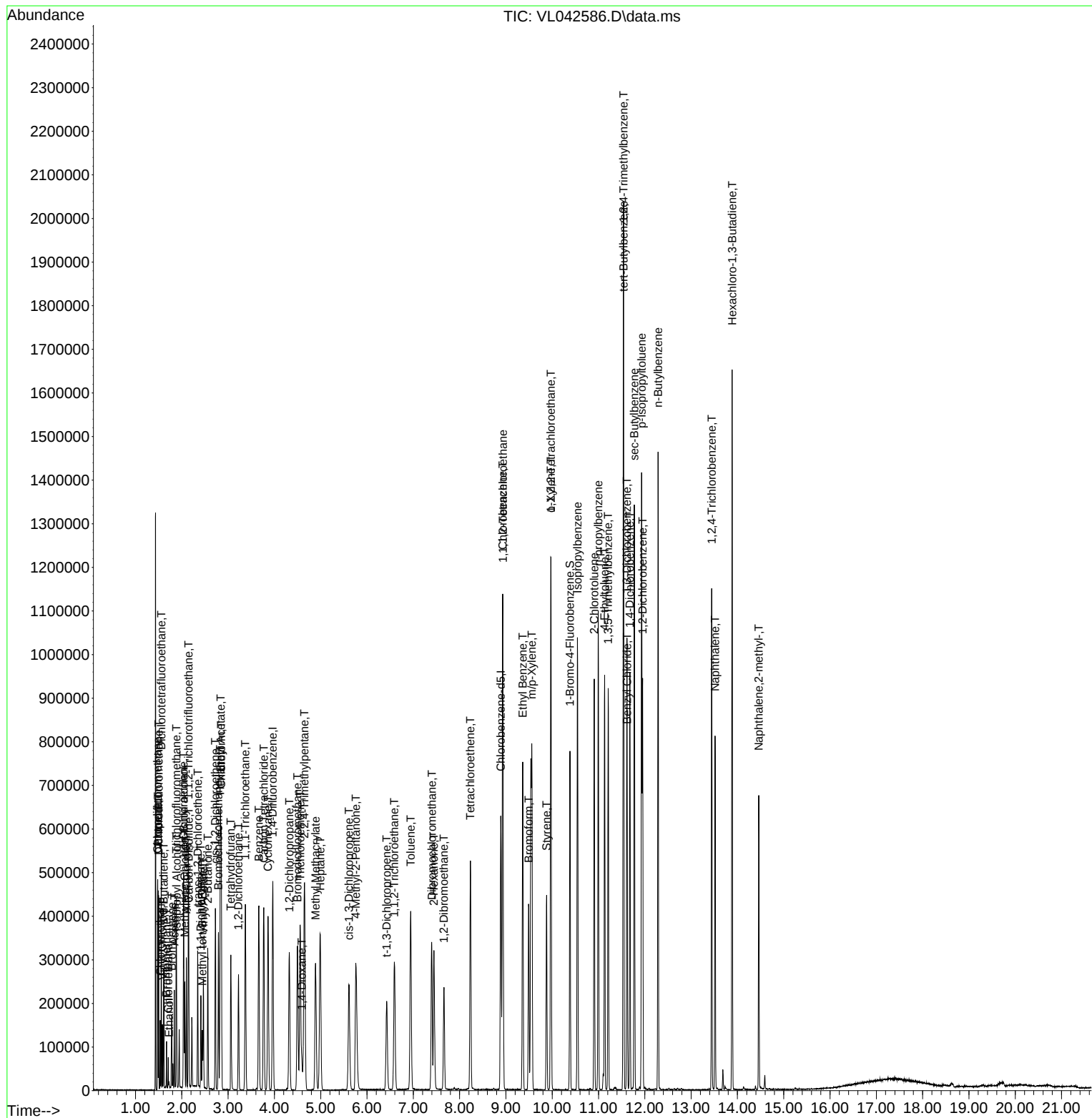
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	100	0.00
2 T	Dichlorodifluoromethane	1.229	1.125	8.5	99	0.00
3	Chlorodifluoromethane	1.693	1.465	13.5	99	0.00
4	Chloromethane	0.487	0.449	7.8	97	0.00
5 T	Vinyl Chloride	0.496	0.429	13.5	98	0.00
6 T	Bromomethane	0.241	0.204	15.4	94	0.00
7	Chloroethane	0.193	0.165	14.5	94	0.00
8 T	Dichlorotetrafluoroethane	1.024	0.955	6.7	100	0.00
9 T	Propene	0.682	0.592	13.2	91	0.00
10 T	Heptane	1.921	1.749	9.0	98	0.00
11 T	Trichlorofluoromethane	1.144	1.085	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	0.883	1.7	105	0.00
13	Ethanol	0.081	0.052	35.8#	89	0.00
14 T	Bromoethene	0.338	0.311	8.0	98	0.00
15 T	Acetone	1.205	0.915	24.1	98	0.00
16 T	1,3-Butadiene	0.571	0.503	11.9	102	0.00
17	tert-Butyl alcohol	1.255	1.206	3.9	97	0.00
18 T	1,1-Dichloroethene	0.416	0.392	5.8	104	0.00
19 T	Isopropyl Alcohol	0.720	0.641	11.0	97	0.00
20 T	Methylene Chloride	0.398	0.336	15.6	102	0.00
21 T	Allyl Chloride	0.850	0.790	7.1	100	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.453	2.6	106	0.00
23 T	Vinyl Acetate	1.628	1.645	-1.0	112	0.00
24 T	1,1-Dichloroethane	0.957	0.900	6.0	99	0.00
25 T	Ethyl Acetate	3.296	3.023	8.3	99	0.00
26 T	Hexane	1.498	1.331	11.1	98	0.00
27 T	Carbon Disulfide	1.150	1.120	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.565	7.1	102	0.00
29 T	Chloroform	1.948	1.764	9.4	100	0.00
30 T	Cyclohexane	1.242	1.142	8.1	99	0.00
31 T	cis-1,2-Dichloroethene	1.370	1.275	6.9	100	0.00
32 T	1,1,1-Trichloroethane	1.990	1.806	9.2	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34 T	2-Butanone	0.713	0.658	7.7	98	0.00
35 T	Carbon Tetrachloride	0.660	0.619	6.2	100	0.00
36 T	Benzene	0.985	0.911	7.5	99	0.00
37 T	1,2-Dichloroethane	0.489	0.468	4.3	102	0.00
38 T	Trichloroethene	0.419	0.382	8.8	99	0.00
39 T	1,2-Dichloropropane	0.364	0.327	10.2	97	0.00
40 T	1,4-Dioxane	0.163	0.152	6.7	98	0.00
41 T	Tetrahydrofuran	0.417	0.389	6.7	98	0.00
42 T	Bromodichloromethane	0.695	0.673	3.2	100	0.00
43	Methyl Methacrylate	0.382	0.360	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	1.684	1.532	9.0	98	0.00
45 T	t-1,3-Dichloropropene	0.437	0.417	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	0.548	0.521	4.9	97	0.00
47 T	1,1,2-Trichloroethane	0.377	0.343	9.0	98	0.00
48 T	Dibromochloromethane	0.603	0.567	6.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	0.521	0.507	2.7	98	0.00
50 T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51 T	2-Hexanone	0.784	0.757	3.4	95	0.00
52 T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53 T	Toluene	1.138	1.062	6.7	98	0.00
54 T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57 T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58 T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59 T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60 T	o-Xylene	1.331	1.207	9.3	98	0.00
61 T	Styrene	0.629	0.591	6.0	97	0.00
62	Isopropylbenzene	1.967	1.780	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64	n-propylbenzene	0.527	0.477	9.5	98	0.00
65	tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66 T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67	sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69	p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70	n-Butylbenzene	2.074	1.867	10.0	98	0.00
71	2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72 T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75 T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76 T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77 T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79 T	Naphthalene	1.437	1.389	3.3	97	0.00
80 T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	100	0.00
2 T	Dichlorodifluoromethane	10.000	9.156	8.4	99	0.00
3	Chlorodifluoromethane	10.000	8.658	13.4	99	0.00
4	Chloromethane	10.000	9.220	7.8	97	0.00
5 T	Vinyl Chloride	10.000	8.650	13.5	98	0.00
6 T	Bromomethane	10.000	8.455	15.4	94	0.00
7	Chloroethane	10.000	8.541	14.6	94	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.325	6.8	100	0.00
9 T	Propene	10.000	8.688	13.1	91	0.00
10 T	Heptane	10.000	9.102	9.0	98	0.00
11 T	Trichlorofluoromethane	10.000	9.484	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.839	1.6	105	0.00
13	Ethanol	10.000	6.387	36.1#	89	0.00
14 T	Bromoethene	10.000	9.215	7.9	98	0.00
15 T	Acetone	10.000	7.596	24.0	98	0.00
16 T	1,3-Butadiene	10.000	8.807	11.9	102	0.00
17	tert-Butyl alcohol	10.000	9.611	3.9	97	0.00
18 T	1,1-Dichloroethene	10.000	9.423	5.8	104	0.00
19 T	Isopropyl Alcohol	10.000	8.899	11.0	97	0.00
20 T	Methylene Chloride	10.000	8.444	15.6	102	0.00
21 T	Allyl Chloride	10.000	9.297	7.0	100	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.742	2.6	106	0.00
23 T	Vinyl Acetate	10.000	10.103	-1.0	112	0.00
24 T	1,1-Dichloroethane	10.000	9.408	5.9	99	0.00
25 T	Ethyl Acetate	10.000	9.171	8.3	99	0.00
26 T	Hexane	10.000	8.889	11.1	98	0.00
27 T	Carbon Disulfide	10.000	9.743	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.302	7.0	102	0.00
29 T	Chloroform	10.000	9.057	9.4	100	0.00
30 T	Cyclohexane	10.000	9.198	8.0	99	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.307	6.9	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.077	9.2	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	98	0.00
34 T	2-Butanone	10.000	9.233	7.7	98	0.00
35 T	Carbon Tetrachloride	10.000	9.374	6.3	100	0.00
36 T	Benzene	10.000	9.253	7.5	99	0.00
37 T	1,2-Dichloroethane	10.000	9.555	4.5	102	0.00
38 T	Trichloroethene	10.000	9.133	8.7	99	0.00
39 T	1,2-Dichloropropane	10.000	8.988	10.1	97	0.00
40 T	1,4-Dioxane	10.000	9.306	6.9	98	0.00
41 T	Tetrahydrofuran	10.000	9.309	6.9	98	0.00
42 T	Bromodichloromethane	10.000	9.676	3.2	100	0.00
43	Methyl Methacrylate	10.000	9.421	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.093	9.1	98	0.00
45 T	t-1,3-Dichloropropene	10.000	9.538	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.505	4.9	97	0.00
47 T	1,1,2-Trichloroethane	10.000	9.088	9.1	98	0.00
48 T	Dibromochloromethane	10.000	9.391	6.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	9.742	2.6	98	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.369	6.3	95	0.00
51 T	2-Hexanone	10.000	9.655	3.5	95	0.00
52 T	Tetrachloroethene	10.000	8.925	10.7	97	0.00
53 T	Toluene	10.000	9.329	6.7	98	0.00
54 T	1,2-Dibromoethane	10.000	9.364	6.4	99	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.199	8.0	96	0.00
57 T	Chlorobenzene	10.000	9.054	9.5	98	0.00
58 T	Ethyl Benzene	10.000	9.237	7.6	98	0.00
59 T	m/p-Xylene	20.000	18.377	8.1	98	0.02
60 T	o-Xylene	10.000	9.069	9.3	98	0.00
61 T	Styrene	10.000	9.396	6.0	97	0.00
62	Isopropylbenzene	10.000	9.051	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.749	12.5	99	0.00
64	n-propylbenzene	10.000	9.054	9.5	98	0.00
65	tert-Butylbenzene	10.000	8.758	12.4	96	0.00
66 T	Benzyl Chloride	10.000	9.435	5.6	87	0.00
67	sec-Butylbenzene	10.000	8.781	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.852	1.5	96	0.00
69	p-Isopropyltoluene	10.000	8.844	11.6	96	0.00
70	n-Butylbenzene	10.000	8.998	10.0	98	0.00
71	2-Chlorotoluene	10.000	9.119	8.8	98	0.00
72 T	4-Ethyltoluene	10.000	9.012	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.131	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.842	11.6	97	0.00
75 T	1,3-Dichlorobenzene	10.000	8.886	11.1	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.034	9.7	98	0.00
77 T	1,2-Dichlorobenzene	10.000	8.754	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.977	20.2	98	0.00
79 T	Naphthalene	10.000	9.666	3.3	97	0.00
80 T	Naphthalene,2-methyl-	10.000	10.853	-8.5	95	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.978	10.2	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2432</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>06/27/2025 08:23</u>
Lab File ID:	<u>VL042670.D</u>	Init. Calib. Date(s):	<u>05/29/2025 05/29/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>11:09 14:24</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.496	0.462		-6.86	30
1,1-Dichloroethene	0.416	0.460		10.58	30
cis-1,2-Dichloroethene	1.370	1.375		0.37	30
1,1,1-Trichloroethane	1.990	2.034		2.21	30
Trichloroethene	0.419	0.441		5.25	30
Tetrachloroethene	0.368	0.373		1.36	30
1-Bromo-4-Fluorobenzene	0.750	0.792		5.6	30

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042670.D
 Acq On : 27 Jun 2025 08:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025

Quant Time: Jun 27 23:00:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	108045	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	242543	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 192139 10.568 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	143058	10.773	ppbv	99
3) Chlorodifluoromethane	1.473	51	179746	9.828	ppbv	98
4) Chloromethane	1.531	50	55262	10.509	ppbv	98
5) Vinyl Chloride	1.580	62	49899	9.315	ppbv	99
6) Bromomethane	1.667	94	26847	10.297	ppbv	94
7) Chloroethane	1.703	64	20423	9.812	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	117740	10.641	ppbv	98
9) Propene	1.483	41	69694	9.463	ppbv	98
10) Heptane	4.968	43	199850	9.626	ppbv	100
11) Trichlorofluoromethane	1.874	101	151847	12.290	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	115647	11.920	ppbv	97
13) Ethanol	1.719	45	6180	7.041	ppbv	94
14) Bromoethene	1.780	108	40932	11.216	ppbv	97
15) Acetone	1.832	43	123589	9.496	ppbv	97
16) 1,3-Butadiene	1.606	39	58029	9.413	ppbv	99
17) tert-Butyl alcohol	2.036	59	137418	10.136	ppbv	99
18) 1,1-Dichloroethene	2.033	96	49732	11.059	ppbv	93
19) Isopropyl Alcohol	1.884	45	78265	10.060	ppbv	96
20) Methylene Chloride	2.059	84	44409	10.340	ppbv	93
21) Allyl Chloride	2.094	41	94033	10.240	ppbv	94
22) trans-1,2-Dichloroethene	2.337	96	57284	11.404	ppbv	93
23) Vinyl Acetate	2.460	43	216852m	12.327	ppbv	
24) 1,1-Dichloroethane	2.405	63	114142	11.044	ppbv	99
25) Ethyl Acetate	2.829	43	359268	10.087	ppbv	99
26) Hexane	2.823	57	153640	9.494	ppbv	95
27) Carbon Disulfide	2.146	76	141726	11.408	ppbv #	90
28) Methyl tert-Butyl Ether	2.437	73	79137	12.050	ppbv	97
29) Chloroform	2.845	83	227578	10.814	ppbv	94
30) Cyclohexane	3.852	84	122018	9.095	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	148610	10.039	ppbv	94
32) 1,1,1-Trichloroethane	3.363	97	219811	10.223	ppbv	99
34) 2-Butanone	2.551	43	235446	12.068	ppbv	98
35) Carbon Tetrachloride	3.755	117	223094	12.353	ppbv	96
36) Benzene	3.651	78	302997	11.247	ppbv	98
37) 1,2-Dichloroethane	3.214	62	174784	13.054	ppbv	97
38) Trichloroethene	4.538	130	120688	10.539	ppbv	90
39) 1,2-Dichloropropane	4.308	63	113422	11.384	ppbv	100
40) 1,4-Dioxane	4.570	88	50122	11.243	ppbv #	92
41) Tetrahydrofuran	3.049	42	127615	11.174	ppbv	98
42) Bromodichloromethane	4.480	83	243110	12.784	ppbv	95
43) Methyl Methacrylate	4.871	69	112348	10.744	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	524538	11.382	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	129456	10.819	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042670.D
 Acq On : 27 Jun 2025 08:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025

Quant Time: Jun 27 23:00:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	162066	10.809	ppbv	98
47) 1,1,2-Trichloroethane	6.571	97	119517	11.589	ppbv	97
48) Dibromochloromethane	7.380	129	193186	11.701	ppbv	100
49) Bromoform	9.480	173	169719	11.914	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	309715	11.445	ppbv	98
51) 2-Hexanone	7.428	43	244750	11.404	ppbv #	96
52) Tetrachloroethene	8.218	164	102020	10.134	ppbv	97
53) Toluene	6.927	91	330201	10.605	ppbv	99
54) 1,2-Dibromoethane	7.645	107	178150	11.670	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.920	131	149145	12.229	ppbv	98
57) Chlorobenzene	8.917	112	264774	11.243	ppbv	99
58) Ethyl Benzene	9.351	91	468721	11.393	ppbv	94
59) m/p-Xylene	9.548	91	770704m	23.805	ppbv	
60) o-Xylene	9.959	91	381262	11.807	ppbv	98
61) Styrene	9.866	104	158538	10.384	ppbv	97
62) Isopropylbenzene	10.536	105	550612	11.542	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	248912	12.123	ppbv	100
64) n-propylbenzene	10.985	120	143667	11.235	ppbv	89
65) tert-Butylbenzene	11.529	119	482264	11.140	ppbv	95
66) Benzyl Chloride	11.610	91	52359	9.396	ppbv	97
67) sec-Butylbenzene	11.765	105	702233	11.538	ppbv	98
69) p-Isopropyltoluene	11.924	119	579788	11.375	ppbv	99
70) n-Butylbenzene	12.277	91	595234	11.831	ppbv	97
71) 2-Chlorotoluene	10.898	91	424145	11.656	ppbv	95
72) 4-Ethyltoluene	11.121	105	469737	11.668	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	389215	11.681	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	433019	11.711	ppbv #	91
75) 1,3-Dichlorobenzene	11.604	146	267385	11.515	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	267005	11.529	ppbv	100
77) 1,2-Dichlorobenzene	11.943	146	262323	11.640	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	181355	9.726	ppbv	98
79) Naphthalene	13.510	128	405468	11.633	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	182890	11.615	ppbv	96
81) 1,2,4-Trichlorobenzene	13.436	180	206285	10.602	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042670.D
 Acq On : 27 Jun 2025 08:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 27 23:00:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	105	0.00
2 T	Dichlorodifluoromethane	1.229	1.324	-7.7	123	0.00
3	Chlorodifluoromethane	1.693	1.664	1.7	119	0.00
4	Chloromethane	0.487	0.511	-4.9	117	0.00
5 T	Vinyl Chloride	0.496	0.462	6.9	111	0.00
6 T	Bromomethane	0.241	0.248	-2.9	121	0.00
7	Chloroethane	0.193	0.189	2.1	114	0.00
8 T	Dichlorotetrafluoroethane	1.024	1.090	-6.4	121	0.00
9 T	Propene	0.682	0.645	5.4	104	0.00
10 T	Heptane	1.921	1.850	3.7	109	-0.01
11 T	Trichlorofluoromethane	1.144	1.405	-22.8	138	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	1.070	-19.2	134	0.00
13	Ethanol	0.081	0.057	29.6	103	0.00
14 T	Bromoethene	0.338	0.379	-12.1	126	0.00
15 T	Acetone	1.205	1.144	5.1	129	0.00
16 T	1,3-Butadiene	0.571	0.537	6.0	115	0.00
17	tert-Butyl alcohol	1.255	1.272	-1.4	108	0.00
18 T	1,1-Dichloroethene	0.416	0.460	-10.6	128	0.00
19 T	Isopropyl Alcohol	0.720	0.724	-0.6	116	0.00
20 T	Methylene Chloride	0.398	0.411	-3.3	132	0.00
21 T	Allyl Chloride	0.850	0.870	-2.4	116	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.530	-14.0	130	0.00
23 T	Vinyl Acetate	1.628	2.007	-23.3	145	0.00
24 T	1,1-Dichloroethane	0.957	1.056	-10.3	123	0.00
25 T	Ethyl Acetate	3.296	3.325	-0.9	114	0.00
26 T	Hexane	1.498	1.422	5.1	111	0.00
27 T	Carbon Disulfide	1.150	1.312	-14.1	129	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.732	-20.4	140	0.00
29 T	Chloroform	1.948	2.106	-8.1	126	0.00
30 T	Cyclohexane	1.242	1.129	9.1	104	0.00
31 T	cis-1,2-Dichloroethene	1.370	1.375	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	1.990	2.034	-2.2	119	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
34 T	2-Butanone	0.713	0.861	-20.8	117	0.00
35 T	Carbon Tetrachloride	0.660	0.815	-23.5	120	-0.01
36 T	Benzene	0.985	1.108	-12.5	109	0.00
37 T	1,2-Dichloroethane	0.489	0.639	-30.7#	127	0.00
38 T	Trichloroethene	0.419	0.441	-5.3	104	-0.01
39 T	1,2-Dichloropropane	0.364	0.415	-14.0	112	0.00
40 T	1,4-Dioxane	0.163	0.183	-12.3	107	-0.02
41 T	Tetrahydrofuran	0.417	0.466	-11.8	107	0.00
42 T	Bromodichloromethane	0.695	0.889	-27.9	120	-0.02
43	Methyl Methacrylate	0.382	0.411	-7.6	100	-0.01
44 T	2,2,4-Trimethylpentane	1.684	1.917	-13.8	112	-0.01
45 T	t-1,3-Dichloropropene	0.437	0.473	-8.2	99	-0.02
46 T	cis-1,3-Dichloropropene	0.548	0.592	-8.0	100	-0.02
47 T	1,1,2-Trichloroethane	0.377	0.437	-15.9	113	-0.02
48 T	Dibromochloromethane	0.603	0.706	-17.1	110	-0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042670.D
 Acq On : 27 Jun 2025 08:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 27 23:00:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	0.521	0.620	-19.0	109	0.00
50 T	4-Methyl-2-Pentanone	0.989	1.132	-14.5	105	-0.02
51 T	2-Hexanone	0.784	0.895	-14.2	102	-0.02
52 T	Tetrachloroethene	0.368	0.373	-1.4	100	-0.01
53 T	Toluene	1.138	1.207	-6.1	102	-0.02
54 T	1,2-Dibromoethane	0.558	0.651	-16.7	112	-0.01
55 I	Chlorobenzene-d5	1.000	1.000	0.0	85	-0.01
56	1,1,1,2-Tetrachloroethane	0.503	0.615	-22.3	112	0.00
57 T	Chlorobenzene	0.971	1.092	-12.5	107	0.00
58 T	Ethyl Benzene	1.696	1.933	-14.0	106	0.00
59 T	m/p-Xylene	1.335	1.589	-19.0	111	0.00
60 T	o-Xylene	1.331	1.572	-18.1	112	0.00
61 T	Styrene	0.629	0.654	-4.0	94	0.00
62	Isopropylbenzene	1.967	2.270	-15.4	109	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	1.026	-21.1	121	0.00
64	n-propylbenzene	0.527	0.592	-12.3	107	0.00
65	tert-Butylbenzene	1.785	1.988	-11.4	107	0.00
66 T	Benzyl Chloride	0.230	0.216	6.1	76	0.00
67	sec-Butylbenzene	2.509	2.895	-15.4	112	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.792	-5.6	90	0.00
69	p-Isopropyltoluene	2.101	2.390	-13.8	109	0.00
70	n-Butylbenzene	2.074	2.454	-18.3	113	0.00
71	2-Chlorotoluene	1.500	1.749	-16.6	110	0.00
72 T	4-Ethyltoluene	1.660	1.937	-16.7	111	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.605	-16.8	110	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.785	-17.1	114	0.00
75 T	1,3-Dichlorobenzene	0.957	1.102	-15.2	112	0.00
76 T	1,4-Dichlorobenzene	0.955	1.101	-15.3	110	0.00
77 T	1,2-Dichlorobenzene	0.929	1.082	-16.5	115	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.748	2.7	105	0.00
79 T	Naphthalene	1.437	1.672	-16.4	103	0.00
80 T	Naphthalene,2-methyl-	0.649	0.754	-16.2	89	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.851	-6.1	98	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042670.D
 Acq On : 27 Jun 2025 08:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 27 23:00:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	105	0.00
2 T	Dichlorodifluoromethane	10.000	10.773	-7.7	123	0.00
3	Chlorodifluoromethane	10.000	9.828	1.7	119	0.00
4	Chloromethane	10.000	10.509	-5.1	117	0.00
5 T	Vinyl Chloride	10.000	9.315	6.9	111	0.00
6 T	Bromomethane	10.000	10.297	-3.0	121	0.00
7	Chloroethane	10.000	9.812	1.9	114	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.641	-6.4	121	0.00
9 T	Propene	10.000	9.463	5.4	104	0.00
10 T	Heptane	10.000	9.626	3.7	109	-0.01
11 T	Trichlorofluoromethane	10.000	12.290	-22.9	138	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	11.920	-19.2	134	0.00
13	Ethanol	10.000	7.041	29.6	103	0.00
14 T	Bromoethene	10.000	11.216	-12.2	126	0.00
15 T	Acetone	10.000	9.496	5.0	129	0.00
16 T	1,3-Butadiene	10.000	9.413	5.9	115	0.00
17	tert-Butyl alcohol	10.000	10.136	-1.4	108	0.00
18 T	1,1-Dichloroethene	10.000	11.059	-10.6	128	0.00
19 T	Isopropyl Alcohol	10.000	10.060	-0.6	116	0.00
20 T	Methylene Chloride	10.000	10.340	-3.4	132	0.00
21 T	Allyl Chloride	10.000	10.240	-2.4	116	0.00
22 T	trans-1,2-Dichloroethene	10.000	11.404	-14.0	130	0.00
23 T	Vinyl Acetate	10.000	12.327	-23.3	145	0.00
24 T	1,1-Dichloroethane	10.000	11.044	-10.4	123	0.00
25 T	Ethyl Acetate	10.000	10.087	-0.9	114	0.00
26 T	Hexane	10.000	9.494	5.1	111	0.00
27 T	Carbon Disulfide	10.000	11.408	-14.1	129	0.00
28 T	Methyl tert-Butyl Ether	10.000	12.050	-20.5	140	0.00
29 T	Chloroform	10.000	10.814	-8.1	126	0.00
30 T	Cyclohexane	10.000	9.095	9.0	104	0.00
31 T	cis-1,2-Dichloroethene	10.000	10.039	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	10.000	10.223	-2.2	119	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	89	0.00
34 T	2-Butanone	10.000	12.068	-20.7	117	0.00
35 T	Carbon Tetrachloride	10.000	12.353	-23.5	120	-0.01
36 T	Benzene	10.000	11.247	-12.5	109	0.00
37 T	1,2-Dichloroethane	10.000	13.054	-30.5#	127	0.00
38 T	Trichloroethene	10.000	10.539	-5.4	104	-0.01
39 T	1,2-Dichloropropane	10.000	11.384	-13.8	112	0.00
40 T	1,4-Dioxane	10.000	11.243	-12.4	107	-0.02
41 T	Tetrahydrofuran	10.000	11.174	-11.7	107	0.00
42 T	Bromodichloromethane	10.000	12.784	-27.8	120	-0.02
43	Methyl Methacrylate	10.000	10.744	-7.4	100	-0.01
44 T	2,2,4-Trimethylpentane	10.000	11.382	-13.8	112	-0.01
45 T	t-1,3-Dichloropropene	10.000	10.819	-8.2	99	-0.02
46 T	cis-1,3-Dichloropropene	10.000	10.809	-8.1	100	-0.02
47 T	1,1,2-Trichloroethane	10.000	11.589	-15.9	113	-0.02
48 T	Dibromochloromethane	10.000	11.701	-17.0	110	-0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042670.D
 Acq On : 27 Jun 2025 08:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 27 23:00:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	11.914	-19.1	109	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.445	-14.5	105	-0.02
51 T	2-Hexanone	10.000	11.404	-14.0	102	-0.02
52 T	Tetrachloroethene	10.000	10.134	-1.3	100	-0.01
53 T	Toluene	10.000	10.605	-6.1	102	-0.02
54 T	1,2-Dibromoethane	10.000	11.670	-16.7	112	-0.01
55 I	Chlorobenzene-d5	10.000	10.000	0.0	85	-0.01
56	1,1,1,2-Tetrachloroethane	10.000	12.229	-22.3	112	0.00
57 T	Chlorobenzene	10.000	11.243	-12.4	107	0.00
58 T	Ethyl Benzene	10.000	11.393	-13.9	106	0.00
59 T	m/p-Xylene	20.000	23.805	-19.0	111	0.00
60 T	o-Xylene	10.000	11.807	-18.1	112	0.00
61 T	Styrene	10.000	10.384	-3.8	94	0.00
62	Isopropylbenzene	10.000	11.542	-15.4	109	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.123	-21.2	121	0.00
64	n-propylbenzene	10.000	11.235	-12.3	107	0.00
65	tert-Butylbenzene	10.000	11.140	-11.4	107	0.00
66 T	Benzyl Chloride	10.000	9.396	6.0	76	0.00
67	sec-Butylbenzene	10.000	11.538	-15.4	112	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.568	-5.7	90	0.00
69	p-Isopropyltoluene	10.000	11.375	-13.8	109	0.00
70	n-Butylbenzene	10.000	11.831	-18.3	113	0.00
71	2-Chlorotoluene	10.000	11.656	-16.6	110	0.00
72 T	4-Ethyltoluene	10.000	11.668	-16.7	111	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.681	-16.8	110	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.711	-17.1	114	0.00
75 T	1,3-Dichlorobenzene	10.000	11.515	-15.2	112	0.00
76 T	1,4-Dichlorobenzene	10.000	11.529	-15.3	110	0.00
77 T	1,2-Dichlorobenzene	10.000	11.640	-16.4	115	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.726	2.7	105	0.00
79 T	Naphthalene	10.000	11.633	-16.3	103	0.00
80 T	Naphthalene,2-methyl-	10.000	11.615	-16.2	89	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.602	-6.0	98	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



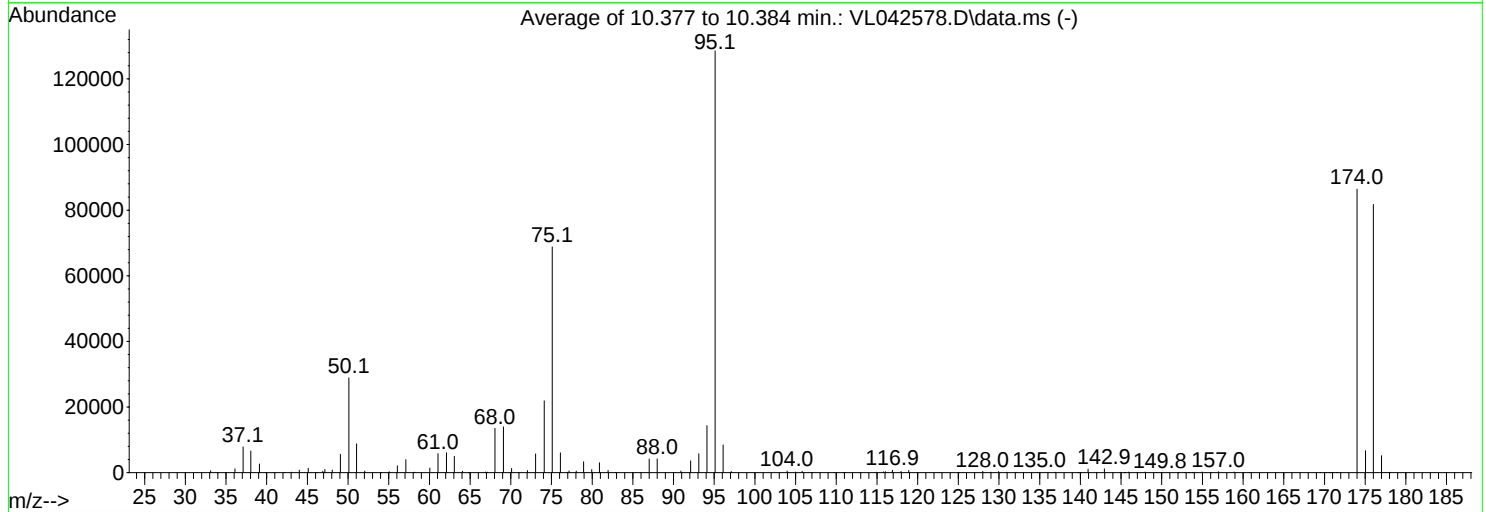
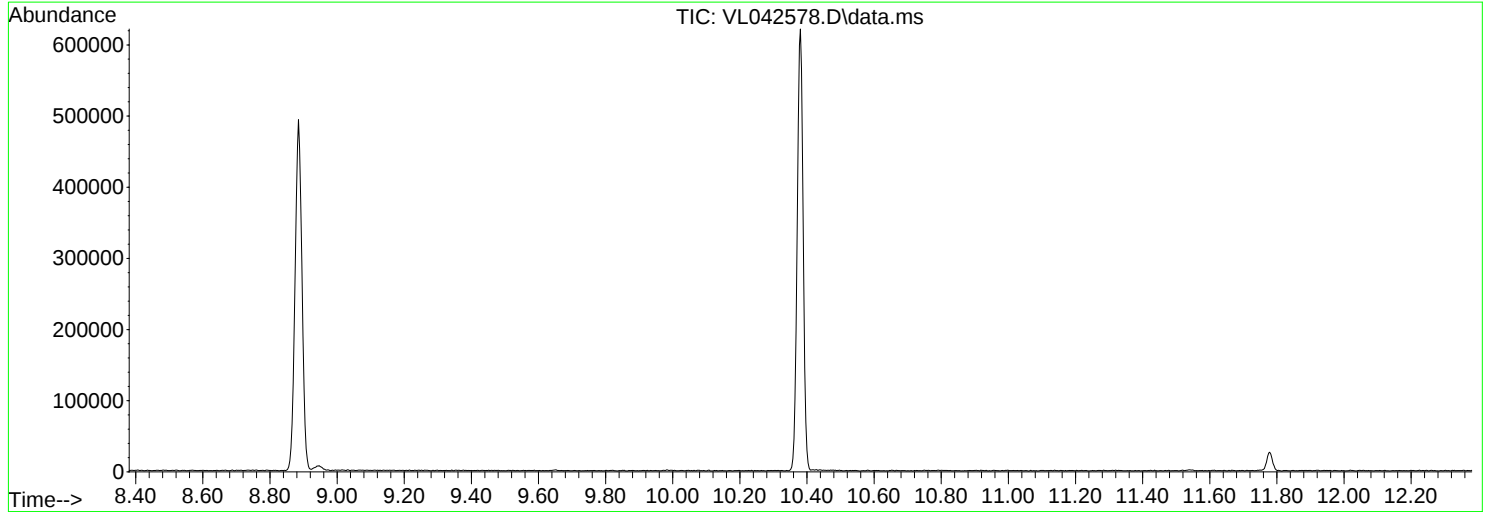
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042578.D
Acq On : 29 May 2025 08:05
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\VL052025AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed May 21 00:21:29 2025



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

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.4	28861	PASS
75	95	30	66	53.5	68792	PASS
95	95	100	100	100.0	128557	PASS
96	95	5	9	6.6	8426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	86397	PASS
175	174	4	9	7.7	6664	PASS
176	174	93	101	94.6	81744	PASS
177	176	5	9	6.3	5154	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	604	45.10	1310	56.05	2107	68.05	1349
33.90	20	46.20	82	57.10	3938	69.10	1396
36.10	1179	46.90	454	58.15	159	70.10	125
37.10	7865	47.15	999	60.05	1394	71.00	7
38.05	6599	48.05	784	61.05	5793	72.05	616
39.10	2657	49.05	5570	62.10	6048	73.05	5702
39.90	81	50.10	28861	63.05	4979	74.10	21883
41.00	66	51.05	8796	64.05	430	75.10	68792
42.20	45	52.05	485	64.80	28	76.10	6072
43.05	164	54.00	17	66.90	188	76.90	143
44.00	762	55.05	314	67.10	147	77.15	541

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	512	93.10	5769	110.85	127	128.00	371
78.95	3322	94.10	14351	111.10	39	129.00	147
79.95	936	95.10	128557	112.95	118	129.95	325
80.90	3038	96.10	8426	114.90	160	130.95	149
81.95	666	97.10	324	115.80	234	132.10	57
82.85	69	103.95	507	116.05	275	134.80	45
85.90	102	105.00	185	116.90	719	135.00	127
87.00	4138	105.80	434	117.95	400	136.90	144
88.00	4195	106.80	76	118.90	638	139.70	25
90.90	504	107.00	24	122.65	40	140.10	50
92.10	3594	109.75	56	125.00	20	140.95	1056

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.05	103	152.80	86	170.90	53		
142.95	1152	153.30	25	171.10	116		
144.90	93	153.70	29	171.50	43		
145.10	33	154.95	214	171.65	64		
145.40	18	156.00	20	172.00	56		
145.95	182	157.00	303	174.00	86397		
147.00	65	158.90	220	175.05	6664		
147.95	210	160.80	92	176.00	81744		
149.35	45	169.50	60	177.00	5154		
149.80	42	170.20	51	177.90	98		
152.00	19	170.60	17	178.10	81		

Instrument :

MSVOA_L

ClientSampleId :

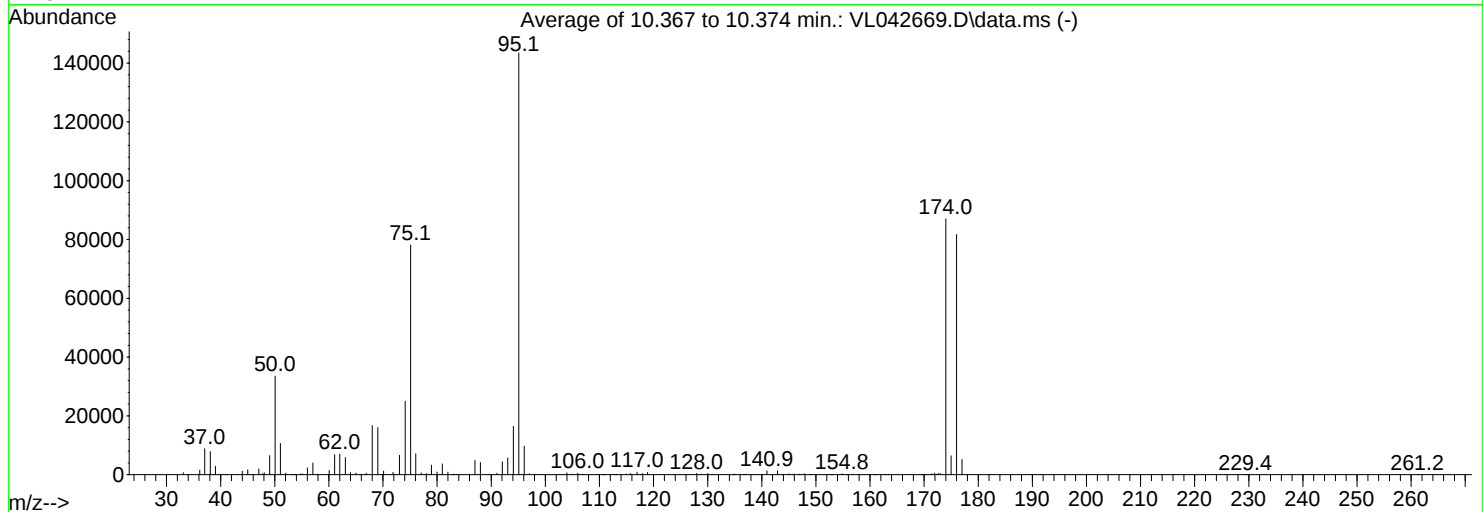
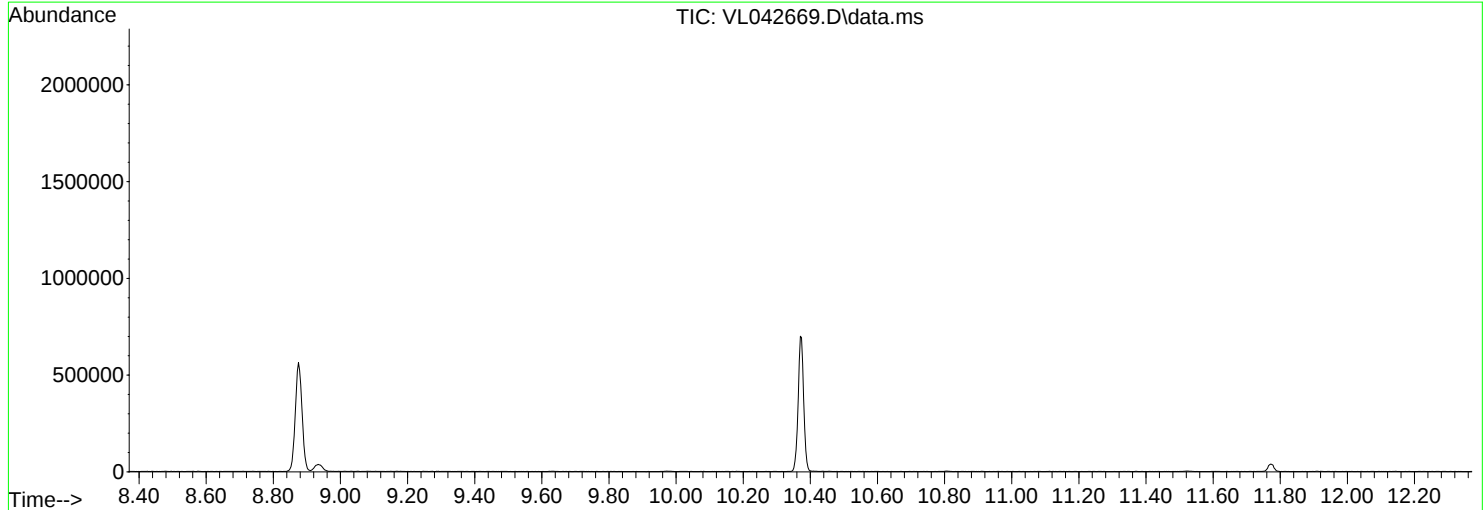
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
Data File : VL042669.D
Acq On : 27 Jun 2025 07:40
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\VL052925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 30 02:01:56 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.4	33512	PASS
75	95	30	66	54.4	78104	PASS
95	95	100	100	100.0	143475	PASS
96	95	5	9	6.7	9634	PASS
173	174	0.00	2	0.5	473	PASS
174	95	50	120	60.7	87037	PASS
175	174	4	9	7.4	6437	PASS
176	174	93	101	93.9	81707	PASS
177	176	5	9	6.3	5183	PASS

Average of 10.367 to 10.374 min.: VL042669.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	673	45.90	54	53.70	17	65.00	521
33.85	52	46.15	114	54.85	262	65.85	133
36.15	1520	47.05	1881	55.15	145	66.90	50
37.05	8795	47.80	329	56.05	2269	68.00	1674
38.10	7866	48.05	678	57.05	3986	69.05	16002
39.05	2835	49.05	6502	57.95	222	70.10	1187
39.95	165	50.05	33512	60.05	1412	71.85	754
40.90	18	51.05	10646	61.05	6815	72.10	176
43.10	130	52.05	541	62.00	6965	73.05	6605
44.00	1177	52.95	82	63.05	5812	74.10	24989
45.00	1612	53.20	21	64.00	694	75.10	78104

Average of 10.367 to 10.374 min.: VL042669.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	7105	87.00	4864	105.00	161	113.15	93
77.05	593	88.00	4141	105.70	126	115.00	209
78.00	378	90.00	69	106.00	489	115.70	388
78.95	3220	91.05	515	106.85	146	116.95	833
80.00	875	92.05	4361	107.10	66	117.80	163
80.95	3669	93.05	5686	109.85	125	117.95	319
82.00	855	94.10	16423	110.70	31	118.90	748
82.90	23	95.10	143475	111.00	89	119.90	46
83.10	186	96.10	9634	111.95	70	123.90	33
83.60	38	97.05	359	112.70	69	125.80	58
85.95	171	104.00	602	113.00	27	127.95	410

Average of 10.367 to 10.374 min.: VL042669.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.80	199	140.95	1314	152.65	43	163.30	25
130.00	404	141.80	126	152.90	23	169.50	29
130.95	134	142.90	1286	154.00	43	170.00	17
134.70	25	143.85	62	154.85	272	170.70	40
134.95	155	145.00	250	155.80	18	171.35	299
136.60	25	145.70	47	156.95	175	171.80	109
137.10	184	146.00	205	157.90	81	171.95	547
138.75	54	147.00	172	158.95	74	172.30	160
139.40	115	147.85	336	160.80	26	172.70	473
139.90	17	148.90	19	161.00	111	173.00	277
140.10	56	149.90	102	162.80	17	174.00	87037

Average of 10.367 to 10.374 min.: VL042669.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	6437						
176.00	81707						
177.00	5183						
177.90	51						
229.40	23						
261.20	18						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	135 W Jericito Trn Pk, Huntington NY	Date Received:	
Client Sample ID:	VL0627ABL01	SDG No.:	Q2432
Lab Sample ID:	VL0627ABL01	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
VL042671.D	1		06/27/25 09:11	VL062725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	106000		2.784			
540-36-3	1,4-Difluorobenzene	270000		3.955			
3114-55-4	Chlorobenzene-d5	235000		8.878			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042671.D
 Acq On : 27 Jun 2025 09:11
 Operator : SY/MD
 Sample : VL0627ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0627ABL01

Quant Time: Jun 27 23:01:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	106054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	269611	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	234616	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	172650	9.817	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%

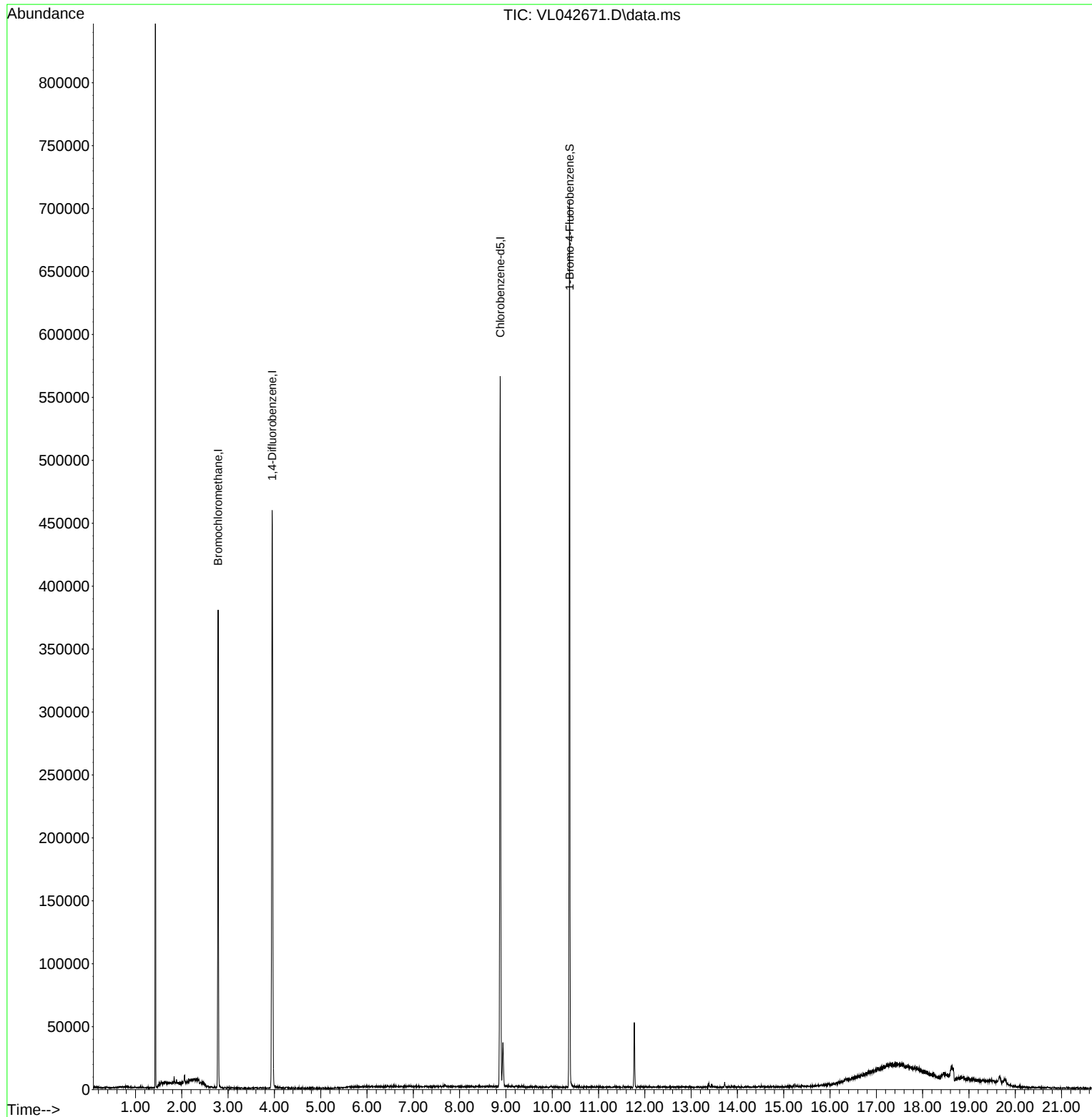
Target Compounds	Qvalue

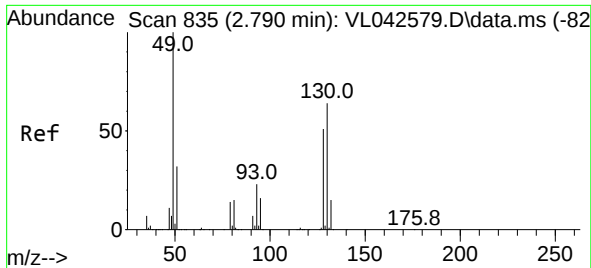
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
Data File : VL042671.D
Acq On : 27 Jun 2025 09:11
Operator : SY/MD
Sample : VL0627ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0627ABL01

Quant Time: Jun 27 23:01:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

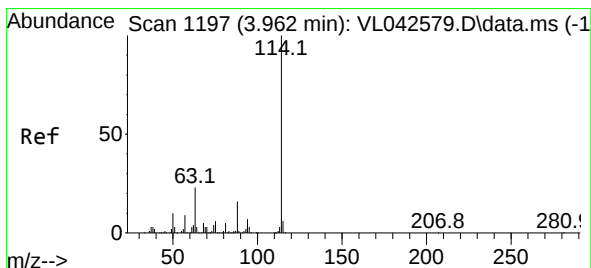
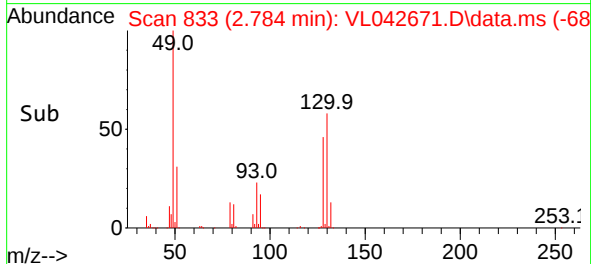
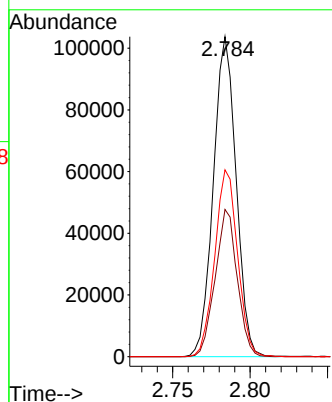
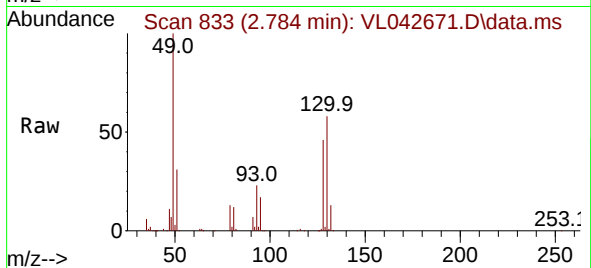




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042671.D
Acq: 27 Jun 2025 09:11

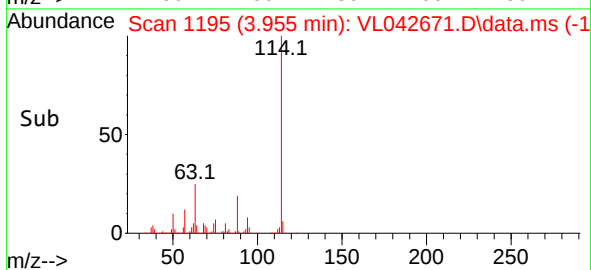
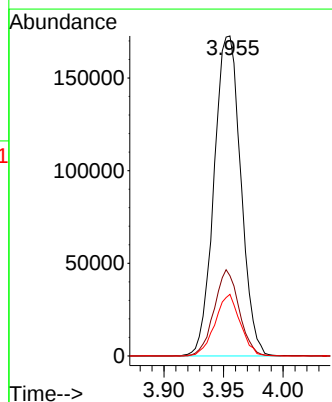
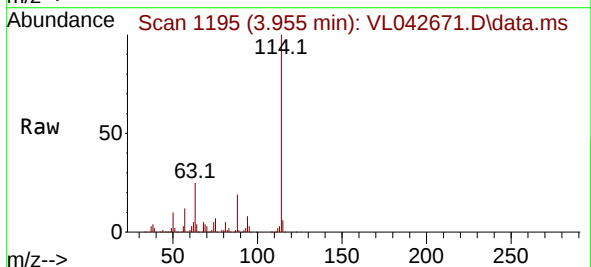
Instrument :
MSVOA_L
ClientSampleId :
VL0627ABL01

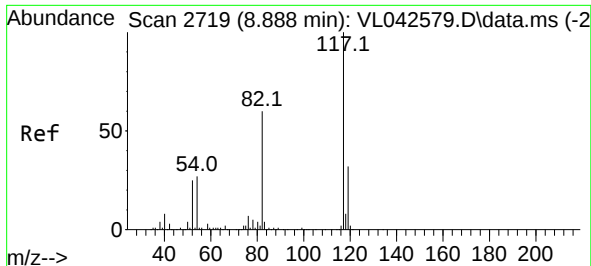
Tgt Ion: 49 Resp: 106054
Ion Ratio Lower Upper
49 100
128 44.5 24.2 72.6
130 58.6 30.4 91.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.006 min
Lab File: VL042671.D
Acq: 27 Jun 2025 09:11

Tgt Ion: 114 Resp: 269611
Ion Ratio Lower Upper
114 100
63 25.2 19.0 28.6
88 18.1 13.6 20.4

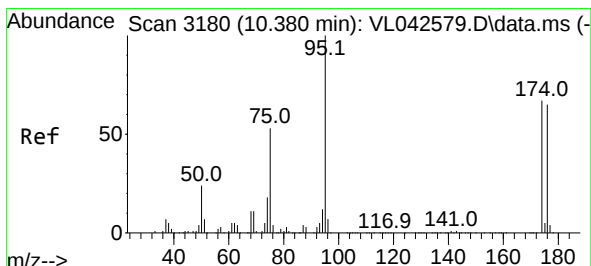
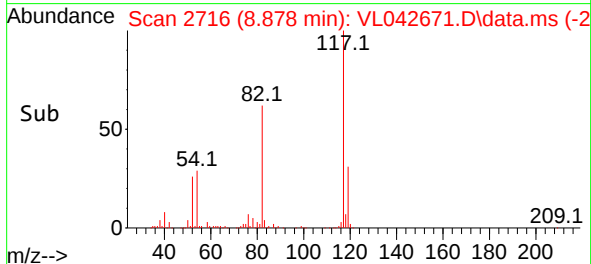
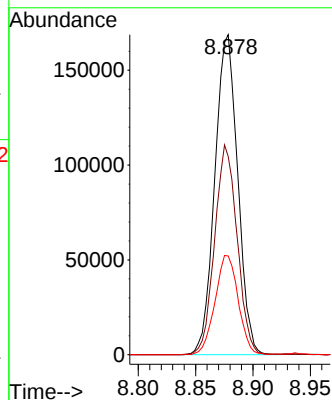
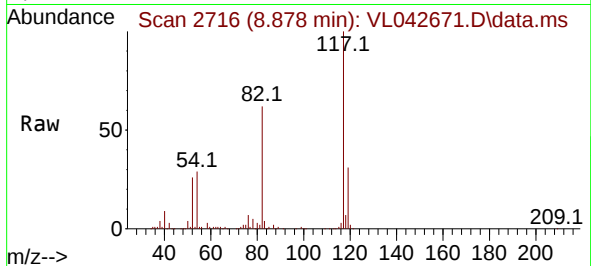




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042671.D
Acq: 27 Jun 2025 09:11

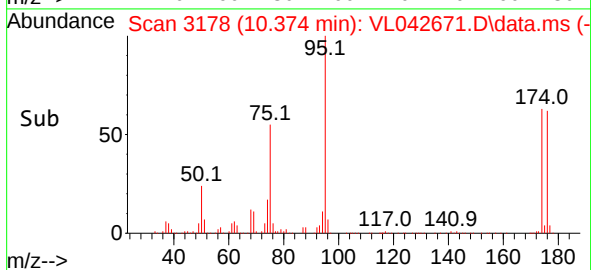
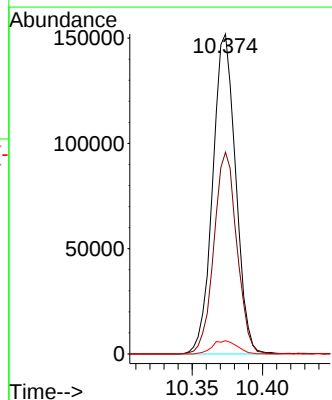
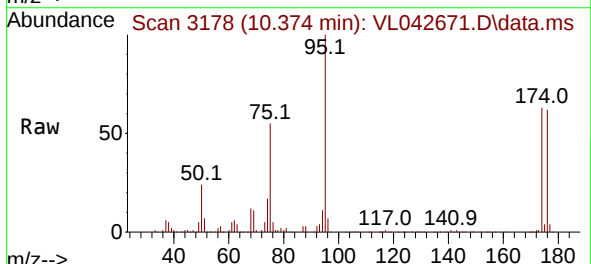
Instrument :
MSVOA_L
ClientSampleId :
VL0627ABL01

Tgt Ion:117 Resp: 234616
Ion Ratio Lower Upper
117 100
82 64.5 51.2 76.8
119 31.4 26.3 39.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.817 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.006 min
Lab File: VL042671.D
Acq: 27 Jun 2025 09:11

Tgt Ion: 95 Resp: 172650
Ion Ratio Lower Upper
95 100
174 63.1 53.1 79.7
175 4.5 4.2 6.2



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	135 W Jericito Trn Pk, Huntington NY	Date Received:	
Client Sample ID:	VL0627ABS01	SDG No.:	Q2432
Lab Sample ID:	VL0627ABS01	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
VL042672.D	1		06/27/25 10:01	VL062725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.50	24.3		0.080	0.080	ug/m3
75-35-4	1,1-Dichloroethene	11.1	44.0		0.59	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.2	40.4		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.3	56.2		0.11	0.16	ug/m3
79-01-6	Trichloroethene	10.3	55.4		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	10.1	68.5		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	107000		2.784			
540-36-3	1,4-Difluorobenzene	277000		3.952			
3114-55-4	Chlorobenzene-d5	244000		8.878			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042672.D
 Acq On : 27 Jun 2025 10:01
 Operator : SY/MD
 Sample : VL0627ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0627ABS01

Quant Time: Jun 27 23:01:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 06/30/2025
 Supervised By : Mahesh Dadoda 06/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	106951	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	276501	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	243742	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 192618 10.542 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	142954	10.876	ppbv	98
3) Chlorodifluoromethane	1.473	51	182823	10.099	ppbv	99
4) Chloromethane	1.531	50	55814	10.723	ppbv	99
5) Vinyl Chloride	1.580	62	50592	9.541	ppbv	100
6) Bromomethane	1.667	94	25688	9.953	ppbv	93
7) Chloroethane	1.703	64	20355	9.880	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	117162	10.697	ppbv	98
9) Propene	1.483	41	68729	9.427	ppbv	98
10) Heptane	4.972	43	200294	9.747	ppbv	100
11) Trichlorofluoromethane	1.874	101	152075	12.434	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	116870	12.169	ppbv	98
13) Ethanol	1.719	45	5567	6.407	ppbv	94
14) Bromoethene	1.780	108	40511	11.214	ppbv	97
15) Acetone	1.832	43	124984	9.702	ppbv	98
16) 1,3-Butadiene	1.609	39	55918	9.163	ppbv	99
17) tert-Butyl alcohol	2.036	59	140591	10.476	ppbv	99
18) 1,1-Dichloroethene	2.033	96	49315	11.078	ppbv	97
19) Isopropyl Alcohol	1.884	45	79068	10.267	ppbv	96
20) Methylene Chloride	2.059	84	43613	10.259	ppbv	97
21) Allyl Chloride	2.094	41	94866	10.437	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	57326	11.529	ppbv	96
23) Vinyl Acetate	2.460	43	229055	13.153	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	115251	11.266	ppbv	98
25) Ethyl Acetate	2.829	43	360851	10.235	ppbv	99
26) Hexane	2.823	57	154267	9.630	ppbv	95
27) Carbon Disulfide	2.146	76	142775	11.610	ppbv	94
28) Methyl tert-Butyl Ether	2.438	73	77186	11.874	ppbv	95
29) Chloroform	2.845	83	229951	11.038	ppbv	99
30) Cyclohexane	3.852	84	122977	9.260	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	149858	10.227	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	218827	10.281	ppbv	99
34) 2-Butanone	2.554	43	233430	11.838	ppbv	100
35) Carbon Tetrachloride	3.758	117	221442	12.132	ppbv	97
36) Benzene	3.651	78	304476	11.182	ppbv	100
37) 1,2-Dichloroethane	3.214	62	172012	12.711	ppbv	98
38) Trichloroethene	4.545	130	119585	10.333	ppbv	92
39) 1,2-Dichloropropane	4.308	63	113456	11.268	ppbv	96
40) 1,4-Dioxane	4.574	88	51153	11.353	ppbv #	95
41) Tetrahydrofuran	3.049	42	125597	10.881	ppbv	99
42) Bromodichloromethane	4.483	83	239716	12.472	ppbv	98
43) Methyl Methacrylate	4.871	69	114121	10.799	ppbv	99
44) 2,2,4-Trimethylpentane	4.632	57	529719	11.374	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	129839	10.737	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042672.D
 Acq On : 27 Jun 2025 10:01
 Operator : SY/MD
 Sample : VL0627ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0627ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025

Quant Time: Jun 27 23:01:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	165832	10.944	ppbv	98
47) 1,1,2-Trichloroethane	6.574	97	121264	11.634	ppbv	96
48) Dibromochloromethane	7.383	129	190692	11.428	ppbv	99
49) Bromoform	9.480	173	169142	11.748	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	310680	11.359	ppbv	98
51) 2-Hexanone	7.428	43	243780	11.239	ppbv #	96
52) Tetrachloroethene	8.221	164	103190	10.142	ppbv	99
53) Toluene	6.927	91	334285	10.622	ppbv	100
54) 1,2-Dibromoethane	7.645	107	177063	11.477	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.921	131	148442	12.112	ppbv	99
57) Chlorobenzene	8.917	112	268876	11.361	ppbv	97
58) Ethyl Benzene	9.351	91	468690	11.336	ppbv	94
59) m/p-Xylene	9.529	91	778438m	23.925	ppbv	
60) o-Xylene	9.959	91	384191	11.839	ppbv	97
61) Styrene	9.866	104	163212	10.638	ppbv	98
62) Isopropylbenzene	10.536	105	554283	11.562	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	250663	12.148	ppbv	99
64) n-propylbenzene	10.985	120	146849	11.427	ppbv	94
65) tert-Butylbenzene	11.529	119	486833	11.190	ppbv	96
66) Benzyl Chloride	11.613	91	51531	9.202	ppbv	100
67) sec-Butylbenzene	11.765	105	699608	11.438	ppbv	98
69) p-Isopropyltoluene	11.921	119	578855	11.301	ppbv	98
70) n-Butylbenzene	12.277	91	597699	11.822	ppbv	98
71) 2-Chlorotoluene	10.898	91	422724	11.560	ppbv	95
72) 4-Ethyltoluene	11.121	105	474718	11.734	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	390052	11.649	ppbv	92
74) 1,2,4-Trimethylbenzene	11.532	105	432083	11.628	ppbv #	90
75) 1,3-Dichlorobenzene	11.604	146	271976	11.655	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	268767	11.548	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	259764	11.470	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	184563	9.850	ppbv	99
79) Naphthalene	13.510	128	412498	11.777	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	185846	11.744	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	210303	10.756	ppbv	97

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

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042579.D	Ethanol	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICCC010	VL042579.D	m/p-Xylene	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	1,4-Dioxane	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Ethanol	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	m/p-Xylene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Methyl Methacrylate	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,4-Dioxane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	2,2,4-Trimethylpentane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	Heptane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	m/p-Xylene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VL042581.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,2-Dichloropropane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,4-Dioxane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	4-Methyl-2-Pentanone	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Benzyl Chloride	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Cyclohexane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Dibromochloromethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Ethanol	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	m/p-Xylene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	1,2-Dibromoethane	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	Naphthalene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.1	VL042583.D	Tetrachloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	Trichloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	1,1,1-Trichloroethane	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Carbon Tetrachloride	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Tetrachloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC0.03	VL042584.D	Trichloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDIC015	VL042585.D	Ethanol	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDIC015	VL042585.D	m/p-Xylene	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	Ethanol	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	m/p-Xylene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL062725	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042670.D	m/p-Xylene	SAM	6/30/2025 7:56:44 AM	mmdadoda	6/30/2025 8:20:51 AM	Peak Integrated by Software
VSTDCCC010	VL042670.D	Vinyl Acetate	SAM	6/30/2025 7:56:44 AM	mmdadoda	6/30/2025 8:20:51 AM	Peak Integrated by Software
VL0627ABS01	VL042672.D	m/p-Xylene	SAM	6/30/2025 7:56:50 AM	mmdadoda	6/30/2025 8:20:51 AM	Peak Integrated by Software
Q2432-01	VL042674.D	Ethanol	SAM	6/30/2025 7:56:55 AM	mmdadoda	6/30/2025 8:20:56 AM	Peak Integrated by Software
Q2432-01	VL042674.D	Heptane	SAM	6/30/2025 7:56:55 AM	mmdadoda	6/30/2025 8:20:56 AM	Peak Integrated by Software
Q2432-01	VL042674.D	Trichloroethene	SAM	6/30/2025 7:56:55 AM	mmdadoda	6/30/2025 8:20:56 AM	Peak Integrated by Software
Q2432-01DUP	VL042675.D	Ethanol	SAM	6/30/2025 7:57:43 AM	mmdadoda	6/30/2025 8:20:58 AM	Peak Integrated by Software
Q2432-01DUP	VL042675.D	Heptane	SAM	6/30/2025 7:57:43 AM	mmdadoda	6/30/2025 8:20:58 AM	Peak Integrated by Software
Q2432-01DUP	VL042675.D	Trichloroethene	SAM	6/30/2025 7:57:43 AM	mmdadoda	6/30/2025 8:20:58 AM	Peak Integrated by Software
Q2432-01DL	VL042678.D	Chloroform	SAM	6/30/2025 7:57:06 AM	mmdadoda	6/30/2025 8:21:02 AM	Peak Integrated by Software
Q2432-01DL	VL042678.D	Ethanol	SAM	6/30/2025 7:57:06 AM	mmdadoda	6/30/2025 8:21:02 AM	Peak Integrated by Software
Q2432-01DL	VL042678.D	m/p-Xylene	SAM	6/30/2025 7:57:06 AM	mmdadoda	6/30/2025 8:21:02 AM	Peak Integrated by Software
Q2432-01DL	VL042678.D	Toluene	SAM	6/30/2025 7:57:06 AM	mmdadoda	6/30/2025 8:21:02 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL062725

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICCC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICCC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICCC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICCC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICCC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICCC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	CAN10053	VL042599.D	29 May 2025 22:52	SY/MD	Ok
23	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26	SY/MD	Ok
24	Q2124-01DUP	VL042601.D	29 May 2025 23:58	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL062725

Review By	Maresh Dadoda	Review On	6/30/2025 8:21:10 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/30/2025 8:23:55 AM		
SubDirectory	VL062725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042669.D	27 Jun 2025 07:40	SY/MD	Ok
2	VSTDCCC010	VL042670.D	27 Jun 2025 08:23	SY/MD	Ok,M
3	VL0627ABL01	VL042671.D	27 Jun 2025 09:11	SY/MD	Ok
4	VL0627ABS01	VL042672.D	27 Jun 2025 10:01	SY/MD	Ok,M
5	Q2432-01	VL042673.D	27 Jun 2025 10:43	SY/MD	Not Ok
6	Q2432-01	VL042674.D	27 Jun 2025 11:30	SY/MD	Dilution
7	Q2432-01DUP	VL042675.D	27 Jun 2025 12:02	SY/MD	Ok,M
8	Q2432-01DL	VL042676.D	27 Jun 2025 12:57	SY/MD	Not Ok
9	Q2432-01DL	VL042677.D	27 Jun 2025 14:01	SY/MD	Not Ok
10	Q2432-01DL	VL042678.D	27 Jun 2025 14:36	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2629		
Initial Calibration Stds	AP2623,AP2625,AP2626		
CCC	AP2623		
Internal Standard/PEM	AP2629		
ICV/I.BLK	AP2627		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042578.D	29 May 2025 08:05		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042579.D	29 May 2025 11:09		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042580.D	29 May 2025 11:43		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042581.D	29 May 2025 12:15		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042582.D	29 May 2025 12:47		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042583.D	29 May 2025 13:19		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042584.D	29 May 2025 13:51		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042585.D	29 May 2025 14:24		SY/MD	Ok,M
9	VSTDICV010	ICVVL052925	VL042586.D	29 May 2025 14:56	comp#13 fail	SY/MD	Ok,M
10	VL0529ABL01	VL0529ABL01	VL042587.D	29 May 2025 15:44	carryover	SY/MD	Not Ok
11	VL0529ABL02	VL0529ABL02	VL042588.D	29 May 2025 16:50		SY/MD	Ok
12	Q2124-01	SV1	VL042589.D	29 May 2025 17:22	Need 20X	SY/MD	Dilution
13	Q2124-01DL	SV1DL	VL042590.D	29 May 2025 17:55		SY/MD	Ok,M
14	VL0529ABS01	VL0529ABS01	VL042591.D	29 May 2025 18:27		SY/MD	Ok,M
15	Q2124-02	SV2	VL042592.D	29 May 2025 19:00		SY/MD	Ok,M
16	Q2124-02DL	SV2DL	VL042593.D	29 May 2025 19:32	Not Required	SY/MD	Not Ok
17	Q2124-03	SV3	VL042594.D	29 May 2025 20:05		SY/MD	Ok,M
18	Q2124-03DL	SV3DL	VL042595.D	29 May 2025 20:37	Not Required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2124-01DUP	SV1DUP	VL042596.D	29 May 2025 21:10	wrong purge	SY/MD	Not Ok
20	QC052725 CAN 10609	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	Contaminated	SY/MD	Not Ok
21	QC052725 CAN 10609	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18		SY/MD	Ok
22	CAN10053	CAN10053	VL042599.D	29 May 2025 22:52		SY/MD	Ok
23	QC05225 CAN 10154	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26		SY/MD	Ok
24	Q2124-01DUP	SV1DUP	VL042601.D	29 May 2025 23:58		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL062725

Review By	Maresh Dadoda	Review On	6/30/2025 8:21:10 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/30/2025 8:23:55 AM
SubDirectory	VL062725	HP Acquire Method	TO15AIR.M HP Processing Method VL052925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042669.D	27 Jun 2025 07:40		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042670.D	27 Jun 2025 08:23		SY/MD	Ok,M
3	VL0627ABL01	VL0627ABL01	VL042671.D	27 Jun 2025 09:11		SY/MD	Ok
4	VL0627ABS01	VL0627ABS01	VL042672.D	27 Jun 2025 10:01		SY/MD	Ok,M
5	Q2432-01	SV1	VL042673.D	27 Jun 2025 10:43	Run @ Lower Dilution	SY/MD	Not Ok
6	Q2432-01	SV1	VL042674.D	27 Jun 2025 11:30	Need 80X	SY/MD	Dilution
7	Q2432-01DUP	SV1DUP	VL042675.D	27 Jun 2025 12:02		SY/MD	Ok,M
8	Q2432-01DL	SV1DL	VL042676.D	27 Jun 2025 12:57	Not used,bad purge.	SY/MD	Not Ok
9	Q2432-01DL	SV1DL	VL042677.D	27 Jun 2025 14:01	Not used	SY/MD	Not Ok
10	Q2432-01DL	SV1DL	VL042678.D	27 Jun 2025 14:36		SY/MD	Ok,M

M : Manual Integration

Client Contact Information		Bottle Order ID : B2506057		Courier : F GALDUN		1 of 1 COCs										
Client ID : GFEL01		Project ID : 50 Jefferson Blvd, Staten Island NY		Sampler Name(s) : FRANK GALDUN		Analysis										
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified		Matrix										
Address : 58 Nokomis Ave		Phone Number : 646-542-3465														
		Fax Number : 973-334-1692														
City : Lake Hiawatha		Site Details: 135 W. JERICHO TRAIL, HUNTINGTON, NY														
State : NJ		Analysis Turnaround Time 5 DAY														
Zip Code : 07034		Standard : 10 business days OR 5 Days														
Country : USA		Rush (Specify):														
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	Indoor/Ambient Air	Soil Gas	
SV1	6/26/25	8:26	10:30	OVER 30	6	80	85	-30	-6.7	10707	10311	6 L	50	VL042490.D	TO-15	(
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low																
Sampling site (State):																
Quick Connector required : NO																
Canisters Shipped by: Santa		Date/Time: 6/26/25		Canisters Received by: FC		Date/Time: 6/26/25		Canisters Received by: FC		Date/Time: 6/26/25		Date/Time: 12:00 PM		B2506057 - 1		
Samples Relinquished by: FC		Date/Time: 6/26/25		Received by: FC		Date/Time: 6/26/25		Received by: FC		Date/Time: 6/26/25		Date/Time: 12:00 PM		B2506057 - 1		
Relinquished by:		Date/Time:		Received by:		Date/Time:		Received by:		Date/Time:		Date/Time:		B2506057 - 1		

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: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
<u>NORSE</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>Q2432</u>		Date Broken <u>5/26/2025</u>	
Case No.: <u>135 W Jericito Trn Pk, Hun</u>		Military Time Seal Broken: <u>00:00:00</u>	
Analytical Parameter/Fraction <u>OCMS Group2</u>			

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2432-01	SV1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
6/26	1300	Signature 	Signature 	
		Printed Name <u>Borge N.</u>	Printed Name <u>Samsatya yordak</u>	
		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

Analyst Signature: [Signature] Supervisor Signature: [Signature]
METHOD: TO-15 Pressure Gauge ID: AZ55971

Document Control # A3041228

Process Report

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

Order ID : Q2432

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
06/26/2025	B2506057	Q2432-01	-6.7	10311	6 L	10707		C2504016	VL042490.D Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D

CHEMTECH

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

Client Sample ID #: SV1

Client Name: GFE

Project Name: W. JERICO TRNPIK

Date: 6/25

Time: TO-15

Analysis: TO-15

Comments: _____

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration: _____

Storage Location: D51

Sample: Q2432-01

Cust #: SV1