SHIPPING DOCUMENTS

CHEMTECH

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

CHEMTECH Project No. : Q1649

Client Contact Information	Bottle Order ID : **B2503004**	Courier : F GALDUN	1 of 2 COCs
Client ID : **GFEL01** Project ID : ~~**97-34-69RD RD, Rego Park NY**~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **FRANK GALDUN**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 223 W. 29TH ST. NY, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : **10 ~~business days~~** **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV1	3/25/25	8:38	10:38	29	4	68	68	-30	-5.5	10503	10258	6 L	50	VL041954.D	1		1

FULL LIST NO TICs

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 0, 0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 3/25/25	Canisters Received by:	Date/Time:
Samples Relinquished by:	Date/Time: 3/26/25	Received by:	Date/Time: 3/26/25 1010
Relinquished by:	Date/Time:	Received by:	Date/Time:

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CHEMTECH

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

CHEMTECH Project No. : Q1649

Client Contact Information	Bottle Order ID : **B2503004**	Courier : F GALDUN	2 of 2 COCs
Client ID : **GFEL01** Project ID : ~~97-34 63RD RD, Rego Park NY~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **FRANK GALDUN**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 223 W. 29TH ST. NY, NY	Individual Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV2	3/25/25	9:09	11:25	30	8	68	68	-30	-9.2	10502	10439	6 L	50	VL041966.D	/		/

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low) PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 03/5/25	Canisters Received by:	Date/Time:
Samples Relinquished by:	Date/Time: 3/26/25	Received by:	Date/Time: 3/26/25 1010
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2503004 - 7

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

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

QA Control Code: A2070148

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech
~~Same~~
Field Sample Seal No.: Q1649
Case No.: 223 W. 29th St NY, NY

Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Date Broken: 3/26/2025
Military Time Seal Broken: 10:10:00
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1649-01	SV1		
Q1649-02	SV2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3/26/25	11:26 AM	Signature [signature]	Signature [signature]	
		Printed Name L. Carter	Printed Name [illegible]	
		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*

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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LAB CHRONICLE

OrderID:	Q1649	**OrderDate:**	3/26/2025 10:30:00 AM
Client:	GFE LLC	**Project:**	223 W. 29th St NY, NY
Contact:	Frank Galdun	**Location:**	I41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1649-01	**SV1**	**Air**			**03/25/25**			**03/26/25**
			TO-15	TO-15			03/31/25	
Q1649-02	**SV2**	**Air**			**03/25/25**			**03/26/25**
			TO-15	TO-15			03/31/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1649

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**SV1**							
Q1649-01	SV1	Air	Heptane	6.97	J	1.80	8.20	ug/m3
Q1649-01	SV1	Air	Acetone	23.8		2.28	4.75	ug/m3
Q1649-01	SV1	Air	Methyl tert-Butyl Ether	3.97	J	1.73	7.21	ug/m3
Q1649-01	SV1	Air	Methylene Chloride	5.56	J	2.64	6.95	ug/m3
Q1649-01	SV1	Air	2-Butanone	2.54	J	1.42	5.90	ug/m3
Q1649-01	SV1	Air	Benzene	1.34	J	1.12	6.39	ug/m3
Q1649-01	SV1	Air	Trichloroethene	1.61		0.38	0.64	ug/m3
Q1649-01	SV1	Air	Toluene	8.29		1.66	7.54	ug/m3
Q1649-01	SV1	Air	Tetrachloroethene	10.2		0.41	0.81	ug/m3
Q1649-01	SV1	Air	m/p-Xylene	7.82	J	3.65	17.4	ug/m3
Q1649-01	SV1	Air	o-Xylene	3.13	J	2.08	8.69	ug/m3
Q1649-01	SV1	Air	1,2,4-Trimethylbenzene	7.37	J	1.52	9.83	ug/m3
Q1649-01	SV1	Air	Hexane	127		1.55	7.05	ug/m3
			Total Voc :	209				
			Total Concentration:	209				
Client ID:	**SV2**							
Q1649-02	SV2	Air	Heptane	7.38	J	1.80	8.20	ug/m3
Q1649-02	SV2	Air	Acetone	21.1		2.28	4.75	ug/m3
Q1649-02	SV2	Air	Methylene Chloride	8.34		2.64	6.95	ug/m3
Q1649-02	SV2	Air	2-Butanone	2.15	J	1.42	5.90	ug/m3
Q1649-02	SV2	Air	2,2,4-Trimethylpentane	2.90	J	1.87	9.34	ug/m3
Q1649-02	SV2	Air	Benzene	2.62	J	1.12	6.39	ug/m3
Q1649-02	SV2	Air	Trichloroethene	1.83		0.38	0.64	ug/m3
Q1649-02	SV2	Air	Toluene	9.80		1.66	7.54	ug/m3
Q1649-02	SV2	Air	Tetrachloroethene	44.1		0.41	0.81	ug/m3
Q1649-02	SV2	Air	Ethyl Benzene	2.61	J	2.08	8.69	ug/m3
Q1649-02	SV2	Air	m/p-Xylene	12.2	J	3.65	17.4	ug/m3
Q1649-02	SV2	Air	o-Xylene	4.78	J	2.08	8.69	ug/m3
Q1649-02	SV2	Air	1,3,5-Trimethylbenzene	2.61	J	2.16	9.83	ug/m3
Q1649-02	SV2	Air	1,2,4-Trimethylbenzene	9.83		1.52	9.83	ug/m3
Q1649-02	SV2	Air	4-Ethyltoluene	2.70	J	2.36	9.83	ug/m3
Q1649-02	SV2	Air	Hexane	109		1.55	7.05	ug/m3
			Total Voc :	244				
			Total Concentration:	244				

QC SUMMARY

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Surrogate Summary

SDG No.: Q1649

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1649-01	SV1	1-Bromo-4-Fluorobenzene	10	9.87	99	65	135
Q1649-02	SV2	1-Bromo-4-Fluorobenzene	10	9.58	96	65	135
Q1669-06DUP	SSSG-DUP-1-3262025DUP	1-Bromo-4-Fluorobenzene	10	9.85	99	65	135
VL0331ABL01	VL0331ABL01	1-Bromo-4-Fluorobenzene	10	9.95	99	65	135
VL0331ABS01	VL0331ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1649

Client: GFE LLC

Analytical Method: SWTO-15 **Datafile :** VL042203.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0331ABS01	Dichlorodifluoromethane	10	10.4	ppbv	104			70	130	
	Chloromethane	10	9.70	ppbv	97			70	130	
	Vinyl Chloride	10	8.70	ppbv	87			70	130	
	Bromomethane	10	9.10	ppbv	91			70	130	
	Chloroethane	10	9.30	ppbv	93			70	130	
	Tetrahydrofuran	10	9.30	ppbv	93			70	130	
	Trichlorofluoromethane	10	10.3	ppbv	103			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.70	ppbv	97			70	130	
	Dichlorotetrafluoethane	10	10.3	ppbv	103			70	130	
	tert-Butyl Alcohol	10	9.00	ppbv	90			70	130	
	Heptane	10	9.20	ppbv	92			70	130	
	1,1-Dichloroethene	10	9.20	ppbv	92			70	130	
	Acetone	10	8.90	ppbv	89			70	130	
	Carbon disulfide	10	9.30	ppbv	93			70	130	
	Methyl tert-butyl Ether	10	11.0	ppbv	110			70	130	
	Methylene Chloride	10	8.40	ppbv	84			70	130	
	trans-1,2-Dichloroethene	10	9.20	ppbv	92			70	130	
	1,1-Dichloroethane	10	10.0	ppbv	100			70	130	
	Cyclohexane	10	9.40	ppbv	94			70	130	
	2-Butanone	10	9.50	ppbv	95			70	130	
	Carbon Tetrachloride	10	10.6	ppbv	106			70	130	
	cis-1,2-Dichloroethene	10	10.0	ppbv	100			70	130	
	Chloroform	10	10.6	ppbv	106			70	130	
	1,1,1-Trichloroethane	10	9.80	ppbv	98			70	130	
	2,2,4-Trimethylpentane	10	9.50	ppbv	95			70	130	
	Benzene	10	9.80	ppbv	98			70	130	
	1,2-Dichloroethane	10	11.0	ppbv	110			70	130	
	Trichloroethene	10	9.70	ppbv	97			70	130	
	1,2-Dichloropropane	10	9.70	ppbv	97			70	130	
	Bromodichloromethane	10	10.8	ppbv	108			70	130	
	4-Methyl-2-Pentanone	10	8.60	ppbv	86			70	130	
	Toluene	10	9.60	ppbv	96			70	130	
	t-1,3-Dichloropropene	10	9.10	ppbv	91			70	130	
	cis-1,3-Dichloropropene	10	9.40	ppbv	94			70	130	
	1,1,2-Trichloroethane	10	10.2	ppbv	102			70	130	
	Dibromochloromethane	10	10.6	ppbv	106			70	130	
	1,2-Dibromoethane	10	10.3	ppbv	103			70	130	
	Tetrachloroethene	10	9.00	ppbv	90			70	130	
	Chlorobenzene	10	10.4	ppbv	104			70	130	
	Ethyl Benzene	10	10.1	ppbv	101			70	130	
	m/p-Xylene	20	20.6	ppbv	103			70	130	
	o-Xylene	10	10.4	ppbv	104			70	130	
	Styrene	10	10.1	ppbv	101			70	130	
	Bromoform	10	10.3	ppbv	103			70	130	
	1,1,2,2-Tetrachloroethane	10	10.4	ppbv	104			70	130	
	2-Chlorotoluene	10	10.3	ppbv	103			70	130	
	1,3,5-Trimethylbenzene	10	10.4	ppbv	104			70	130	
	1,2,4-Trimethylbenzene	10	9.80	ppbv	98			70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1649

Client: GFE LLC

Analytical Method: SWTO-15 **Datafile :** VL042203.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0331ABS01	1,3-Dichlorobenzene	10	10.5	ppbv	105			70	130	
	1,4-Dichlorobenzene	10	10.5	ppbv	105			70	130	
	1,2-Dichlorobenzene	10	10.6	ppbv	106			70	130	
	1,2,4-Trichlorobenzene	10	9.30	ppbv	93			70	130	
	Hexachloro-1,3-butadiene	10	8.40	ppbv	84			70	130	
	Naphthalene	10	9.50	ppbv	95			70	130	
	1,3-Butadiene	10	8.70	ppbv	87			70	130	
	4-Ethyltoluene	10	10.5	ppbv	105			70	130	
	Hexane	10	9.50	ppbv	95			70	130	
	Allyl Chloride	10	8.90	ppbv	89			70	130	
	1,4-Dioxane	10	8.90	ppbv	89			70	130	
	Methyl methacrylate	10	9.20	ppbv	92			70	130	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Duplicate Sample Summary

Lab Sample Id :	Q1669-06DUP		Q1669-06	
Client Id :	SSSG-DUP-1-3262025DUI		SSSG-DUP-1-3262025	
DF :	1		1	
Datafile :	VL042206.D		VL042204.D	
Anal Date & Time :	03/31/2025	12:26	03/31/2025	11:06

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	1.3	1.4	7.4
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0.43	0.43	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	2.3	2.3	0
2-Butanone	6.4	6.2	3.2
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0.43	0.44	2.3
4-Methyl-2-Pentanone	0.41	0.4	2.5
Acetone	22.2	24	7.8
Allyl Chloride	0	0	0
Benzene	5.8	5.6	3.5
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.07	0.07	0

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

Duplicate Sample Summary

Lab Sample Id :	Q1669-06DUP		Q1669-06	
Client Id :	SSSG-DUP-1-3262025DUI		SSSG-DUP-1-3262025	
DF :	1		1	
Datafile :	VL042206.D		VL042204.D	
Anal Date & Time :	03/31/2025	12:26	03/31/2025	11:06

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.42	0.43	2.4
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	1.5	1.5	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.45	0.46	2.2
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	1.4	1.3	7.4
Heptane	1.7	1.6	6.1
Hexachloro-1,3-Butadiene	0	0	0
Hexane	4.6	4.4	4.4
m/p-Xylene	5.1	5.1	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.53	0.51	3.8
Naphthalene	0.37	0.43	15
o-Xylene	1.9	1.9	0
Styrene	1.4	1.4	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.04	0	200 *
Tetrahydrofuran	1.9	2	5.1
Toluene	10	9.7	3
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.19	0.2	5.1
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SSSG-DUP-1-3262025D

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG NO.: Q1649

Lab File ID: VL042206.D Lab Sample ID: Q1669-06DUP

Date Analyzed: 03/31/2025 Time Analyzed: 12:26

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
SSSG-DUP-1-3262025DUP	Q1669-06DUP	VL042206.D	03/31/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0331ABL01

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG NO.: Q1649

Lab File ID: VL042202.D Lab Sample ID: VL0331ABL01

Date Analyzed: 03/31/2025 Time Analyzed: 09:34

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
VL0331ABS01	VL0331ABS01	VL042203.D	03/31/2025
SV1	Q1649-01	VL042207.D	03/31/2025
SV2	Q1649-02	VL042208.D	03/31/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG NO.: Q1649

Lab File ID: VL042171.D BFB Injection Date: 03/27/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:44

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23
75	30.0 - 66.0% of mass 95	56.3
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	63.8
175	4.0 - 9.0% of mass 174	5.1 (8) 1
176	93.0 - 101.0% of mass 174	61.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042172.D	03/27/2025	08:26
VSTDICC002	VSTDICC002	VL042173.D	03/27/2025	08:59
VSTDICC001	VSTDICC001	VL042174.D	03/27/2025	09:30
VSTDICC0.5	VSTDICC0.5	VL042175.D	03/27/2025	10:01
VSTDICC0.1	VSTDICC0.1	VL042176.D	03/27/2025	10:32
VSTDICC0.03	VSTDICC0.03	VL042177.D	03/27/2025	11:03
VSTDICC015	VSTDICC015	VL042178.D	03/27/2025	11:36

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG NO.: Q1649

Lab File ID: VL042200.D BFB Injection Date: 03/31/2025

Instrument ID: MSVOA_L BFB Injection Time: 08:09

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	25.4
75	30.0 - 66.0% of mass 95	61.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 120.0% of mass 95	59.4
175	4.0 - 9.0% of mass 174	4.5 (7.6) 1
176	93.0 - 101.0% of mass 174	57.9 (97.6) 1
177	5.0 - 9.0% of mass 176	3.8 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042201.D	03/31/2025	08:51
VL0331ABL01	VL0331ABL01	VL042202.D	03/31/2025	09:34
VL0331ABS01	VL0331ABS01	VL042203.D	03/31/2025	10:17
SSSG-DUP-1-3262025DUP	Q1669-06DUP	VL042206.D	03/31/2025	12:26
SV1	Q1649-01	VL042207.D	03/31/2025	13:05
SV2	Q1649-02	VL042208.D	03/31/2025	13:36

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG NO.: Q1649

Lab File ID: VL042201.D Date Analyzed: 03/31/2025

Instrument ID: MSVOA_L Time Analyzed: 08:51

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	161478	2.80	460403	3.98	424671	8.90
UPPER LIMIT	226069	3.13	644564	4.31	594539	9.23
LOWER LIMIT	96886.8	2.47	276242	3.65	254803	8.57
EPA SAMPLE NO.						
SV1	188990	2.80	532030	3.98	474470	8.90
SV2	185856	2.81	529863	3.99	478116	8.91
SSSG-DUP-1-3262025DUP	184777	2.81	533717	3.99	486289	8.91
VL0331ABL01	181807	2.80	517775	3.98	464953	8.90
VL0331ABS01	175685	2.80	498986	3.98	456400	8.90

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	GFE LLC	Date Collected:	03/25/25
Project:	223 W. 29th St NY, NY	Date Received:	03/26/25
Client Sample ID:	SV1	SDG No.:	Q1649
Lab Sample ID:	Q1649-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042207.D	4		03/31/25 13:05	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.39	0.81	U	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	U	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	U	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	U	2.30	6.06	ug/m3
142-82-5	Heptane	1.70	6.97	J	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	10.0	23.8		2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	U	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.10	3.97	J	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	1.60	5.56	J	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.86	2.54	J	1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	U	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.42	1.34	J	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.30	1.61		0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.37	1.52	U	1.52	8.20	ug/m3
108-88-3	Toluene	2.20	8.29		1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

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Report of Analysis

Client:	GFE LLC	Date Collected:	03/25/25
Project:	223 W. 29th St NY, NY	Date Received:	03/26/25
Client Sample ID:	SV1	SDG No.:	Q1649
Lab Sample ID:	Q1649-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042207.D	4		03/31/25 13:05	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.80	7.82	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.72	3.13	J	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.50	7.37	J	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.48	2.36	U	2.36	9.83	ug/m3
110-54-3	Hexane	36.0	127		1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	189000		2.803			
540-36-3	1,4-Difluorobenzene	532000		3.981			
3114-55-4	Chlorobenzene-d5	474000		8.901			

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Report of Analysis

Client:	GFE LLC	Date Collected:	03/25/25
Project:	223 W. 29th St NY, NY	Date Received:	03/26/25
Client Sample ID:	SV1	SDG No.:	Q1649
Lab Sample ID:	Q1649-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042207.D	4		03/31/25 13:05	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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

E = Value Exceeds Calibration Range

D = Dilution

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

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042207.D
Acq On : 31 Mar 2025 13:05
Operator : SY/MD
Sample : Q1649-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 01 01:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

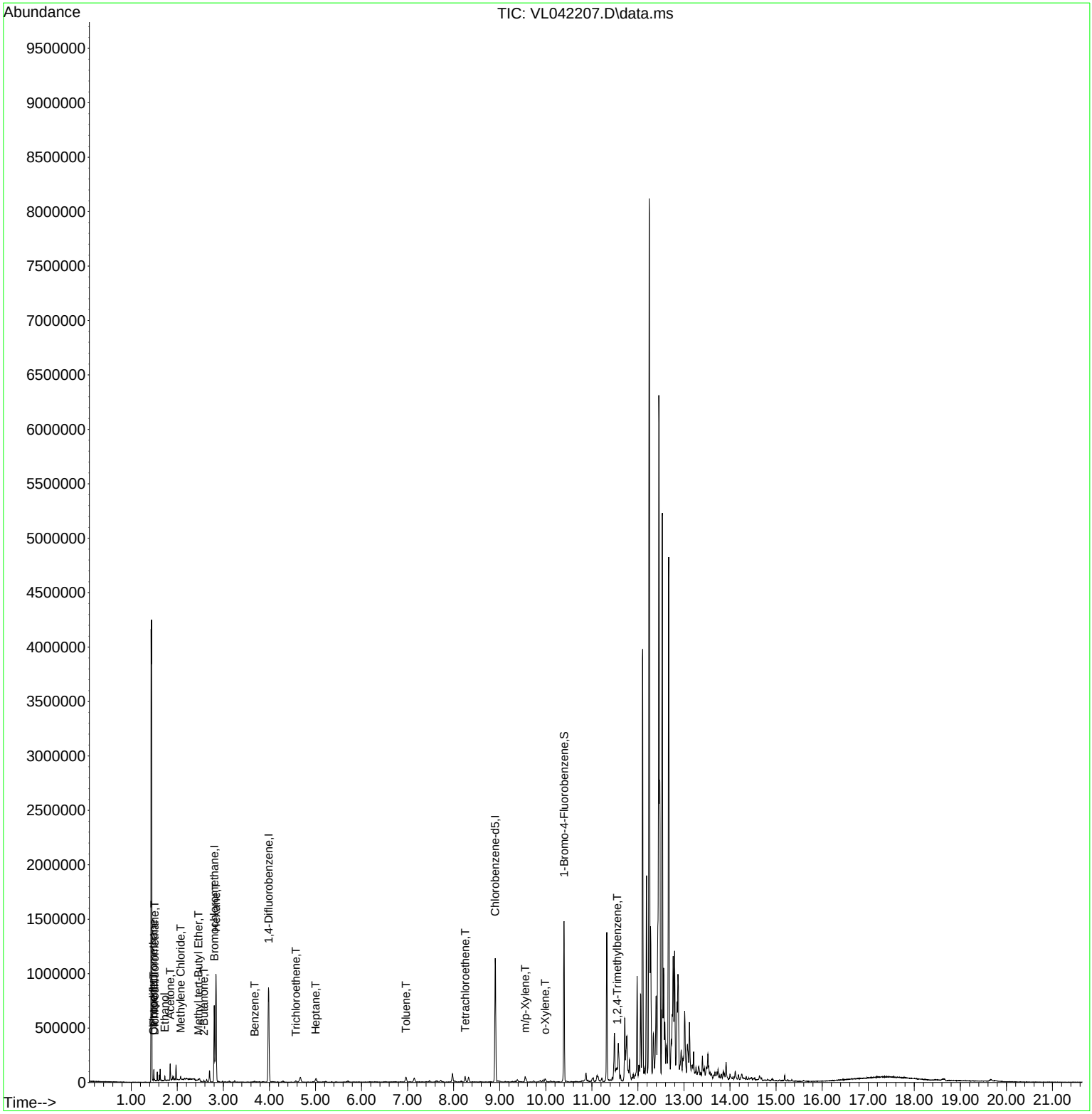
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	188990	10.000	ppbv		0.02
33) 1,4-Difluorobenzene	3.981	114	532030	10.000	ppbv		0.03
55) Chlorobenzene-d5	8.901	117	474470	10.000	ppbv		0.03
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.396	95	384646	9.872	ppbv		0.03
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	4066	0.146	ppbv		99
3) Chlorodifluoromethane	1.483	51	4794m	0.168	ppbv		
9) Propene	1.489	41	15539	1.189	ppbv		93
10) Heptane	5.004	43	14747m	0.424	ppbv		
13) Ethanol	1.729	45	13674	11.071	ppbv	#	27
15) Acetone	1.845	43	66131	2.502	ppbv		92
20) Methylene Chloride	2.075	84	3942	0.400	ppbv	#	73
26) Hexane	2.842	57	238592	9.004	ppbv	#	29
28) Methyl tert-Butyl Ether	2.457	73	4385m	0.266	ppbv		
34) 2-Butanone	2.577	43	8334	0.216	ppbv		95
36) Benzene	3.677	78	5514	0.105	ppbv	#	79
38) Trichloroethene	4.577	130	1630m	0.074	ppbv		
52) Tetrachloroethene	8.250	164	7895	0.377	ppbv	#	71
53) Toluene	6.966	91	33676	0.539	ppbv		96
59) m/p-Xylene	9.555	91	30419m	0.452	ppbv		
60) o-Xylene	9.985	91	12139	0.180	ppbv		95
74) 1,2,4-Trimethylbenzene	11.552	105	32137	0.380	ppbv	#	66

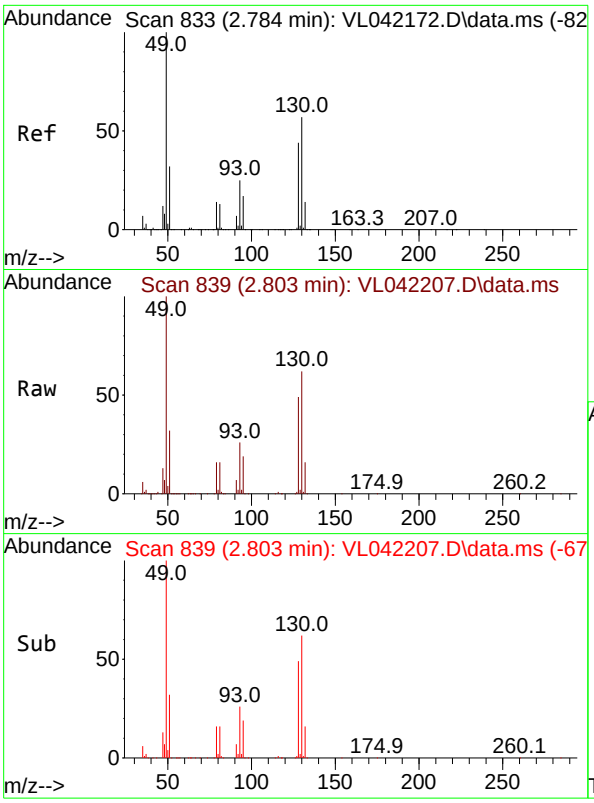
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042207.D
Acq On : 31 Mar 2025 13:05
Operator : SY/MD
Sample : Q1649-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 01 01:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



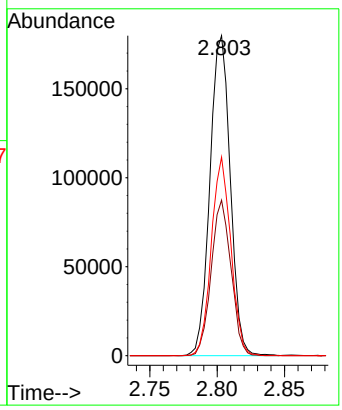


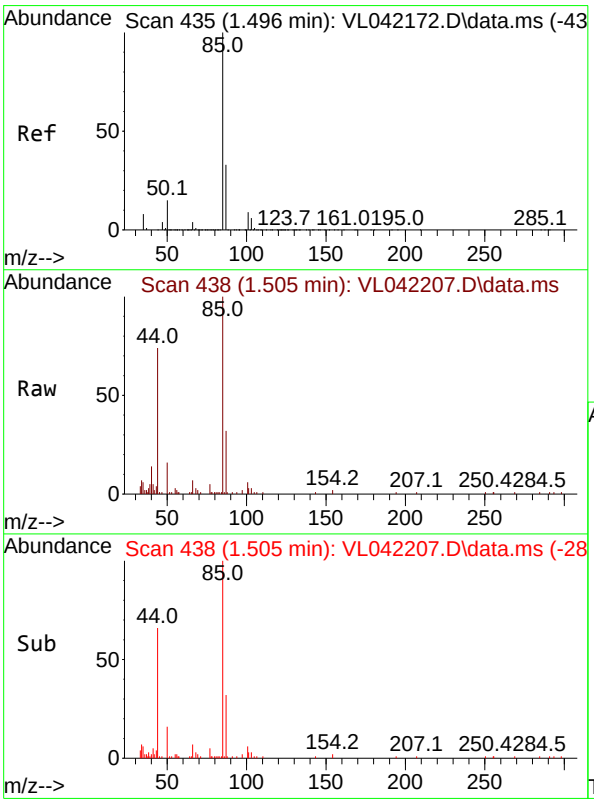
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 8
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 188990

Ion	Ratio	Lower	Upper
49	100		
128	47.3	22.9	68.5
130	59.4	28.8	86.4

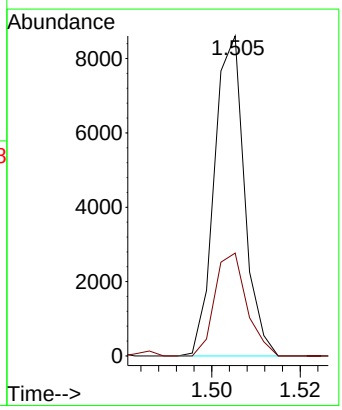


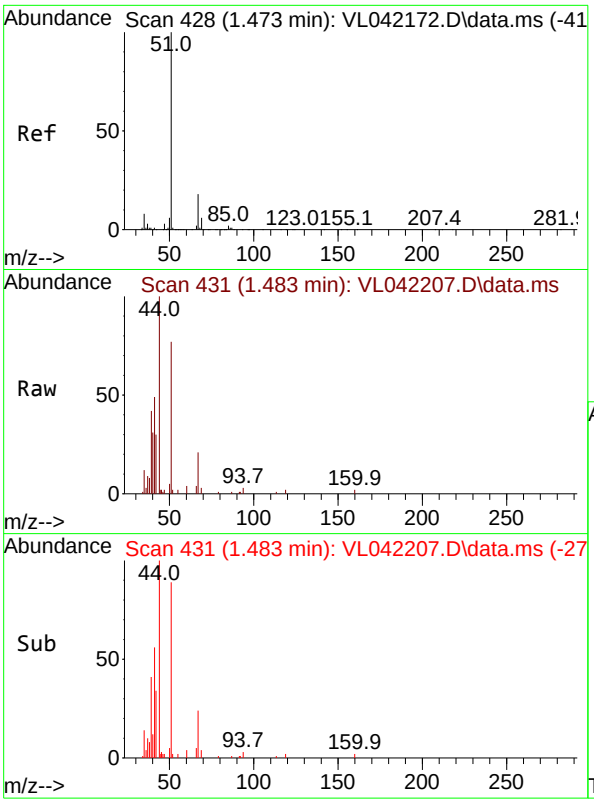


#2
Dichlorodifluoromethane
Concen: 0.146 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 85 Resp: 4066

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.1	39.1



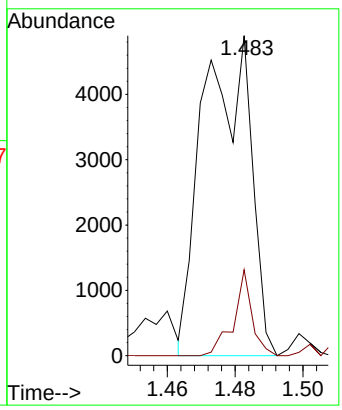


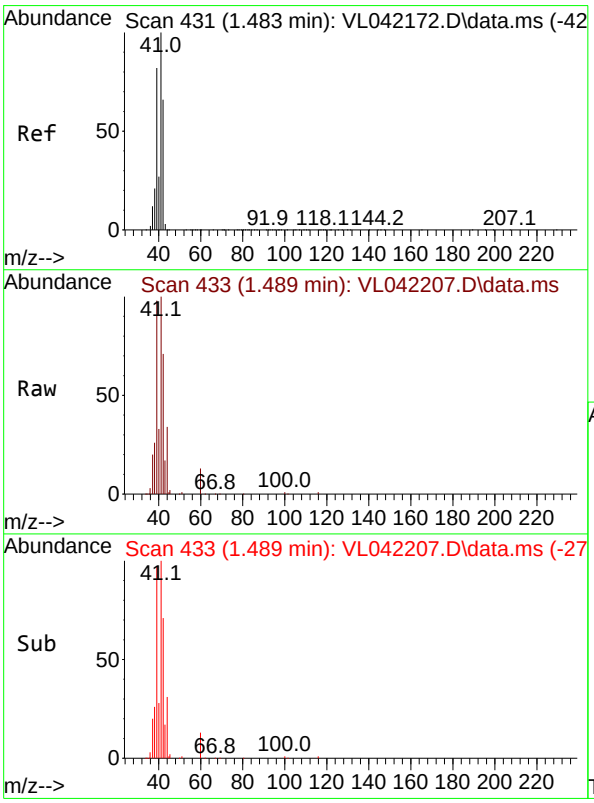
#3
Chlorodifluoromethane
Concen: 0.168 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 4794

Ion	Ratio	Lower	Upper
51	100		
67	11.2	15.0	22.6#

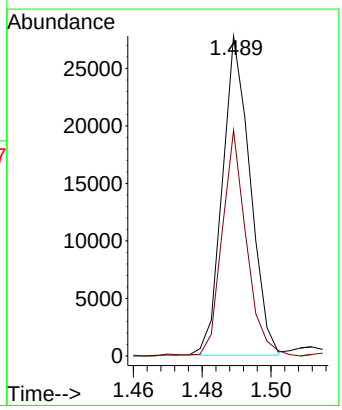


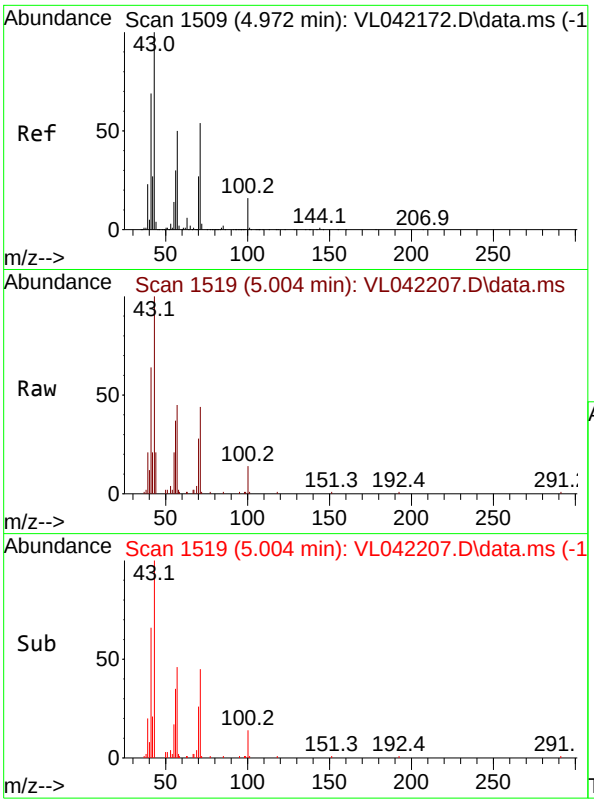


#9
Propene
Concen: 1.189 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 41 Resp: 15539

Ion	Ratio	Lower	Upper
41	100		
42	63.3	55.4	83.2



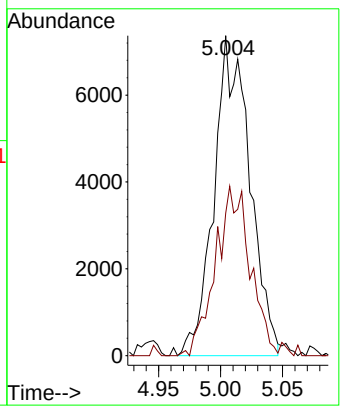


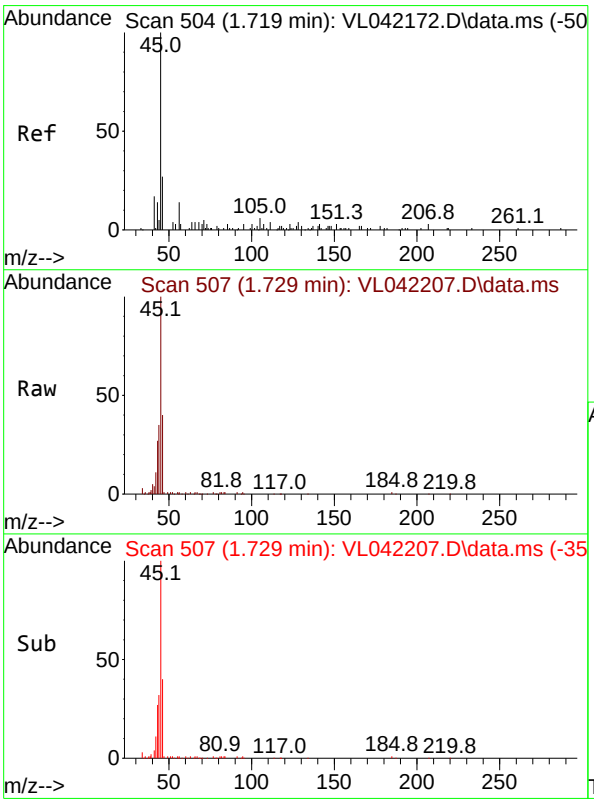
#10
Heptane
Concen: 0.424 ppbv m
RT: 5.004 min Scan# 1
Delta R.T. 0.032 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 14747

Ion	Ratio	Lower	Upper
43	100		
57	53.0	39.4	59.2

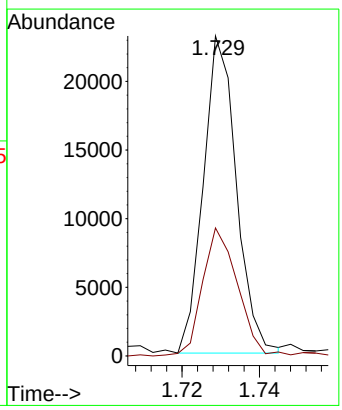


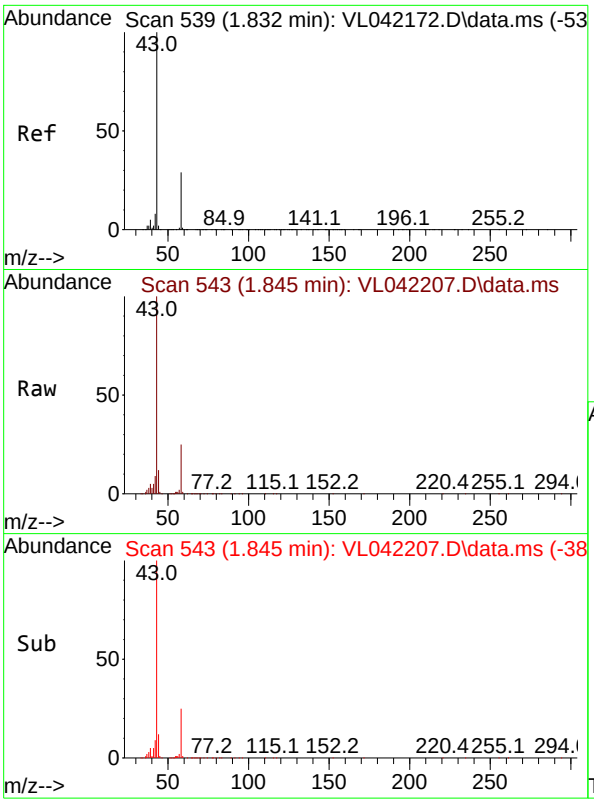


#13
Ethanol
Concen: 11.071 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 45 Resp: 13674

Ion	Ratio	Lower	Upper
45	100		
46	0.0	20.2	80.8#



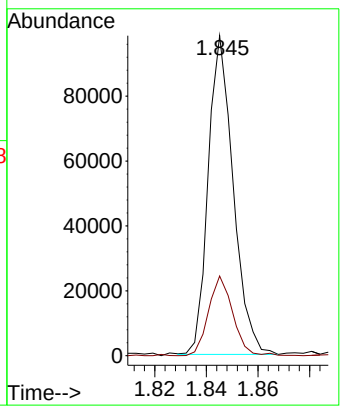


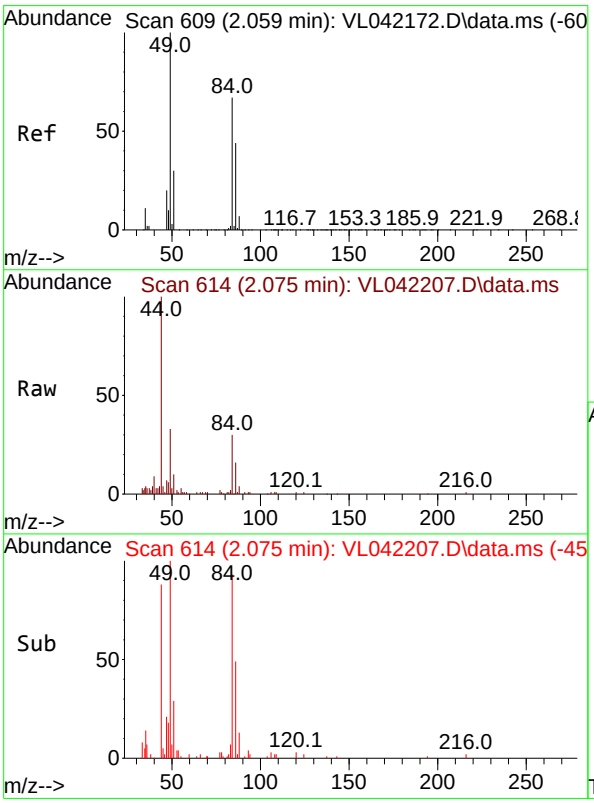
#15
Acetone
Concen: 2.502 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 66131

Ion	Ratio	Lower	Upper
43	100		
58	24.5	23.2	34.8

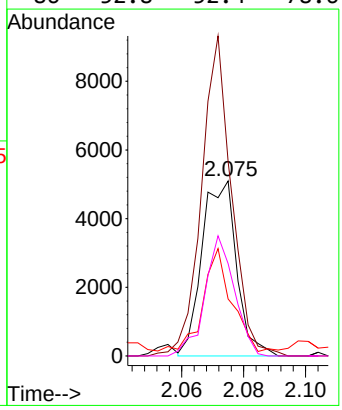


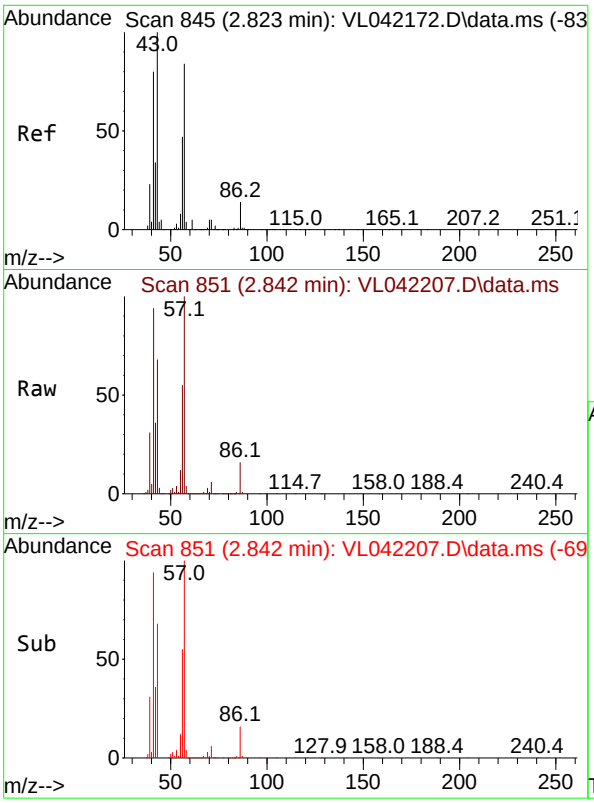


#20
Methylene Chloride
Concen: 0.400 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 84 Resp: 3942

Ion	Ratio	Lower	Upper
84	100		
49	108.8	120.2	180.4#
51	29.1	37.4	56.0#
86	52.8	52.4	78.6



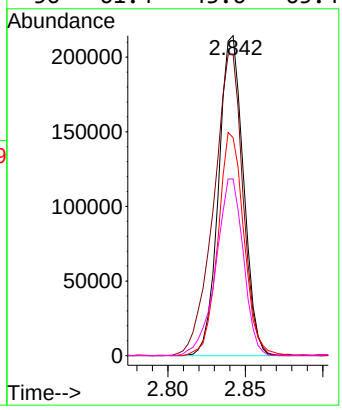


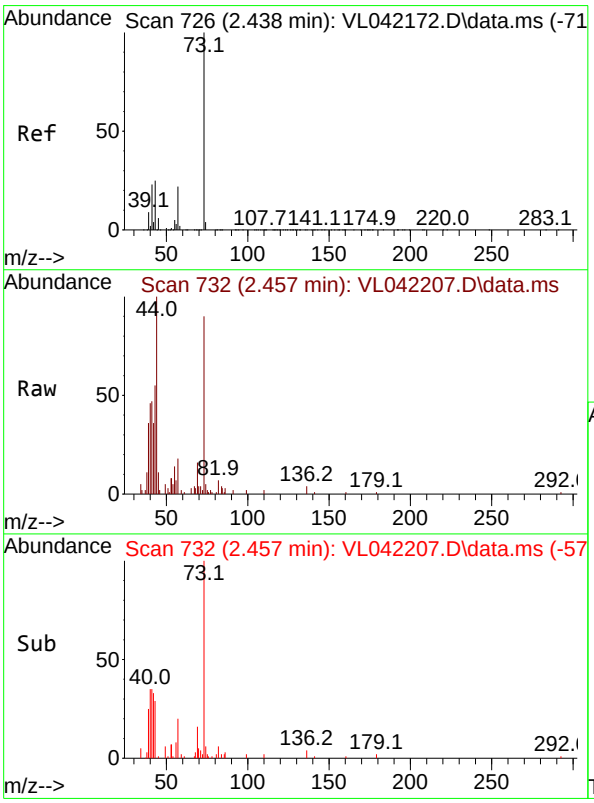
#26
Hexane
Concen: 9.004 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 57 Resp: 238592

Ion	Ratio	Lower	Upper
57	100		
41	111.2	76.6	114.8
43	73.3	207.8	311.8#
56	61.4	43.6	65.4

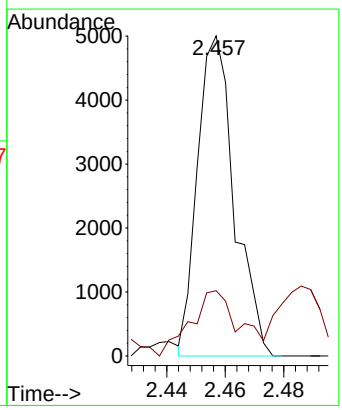


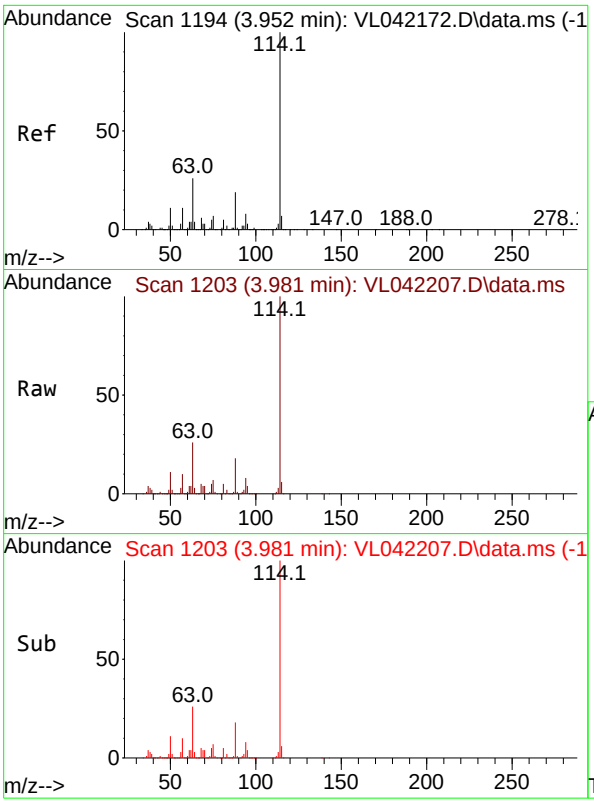


#28
Methyl tert-Butyl Ether
Concen: 0.266 ppbv m
RT: 2.457 min Scan# 732
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 73 Resp: 4385

Ion	Ratio	Lower	Upper
73	100		
57	0.0	20.5	30.7#



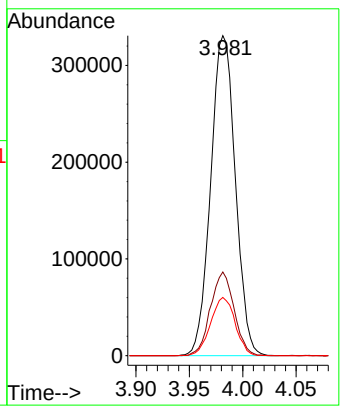


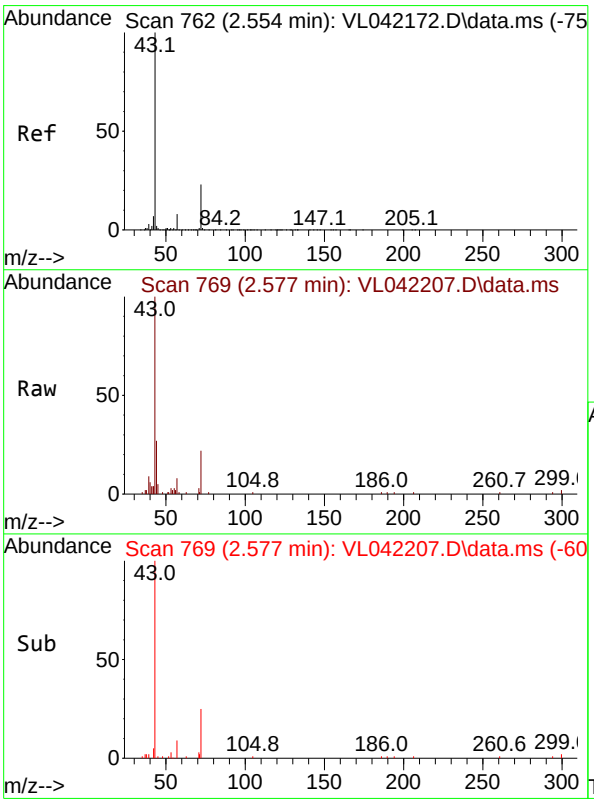
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1
Delta R.T. 0.029 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:114 Resp: 532030

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.7	31.1
88	18.1	15.0	22.4

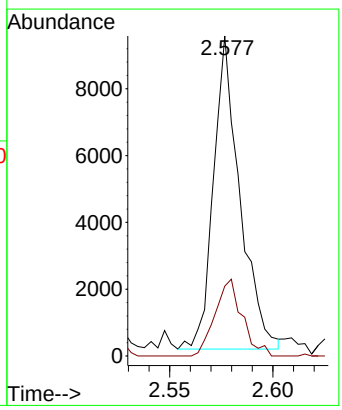


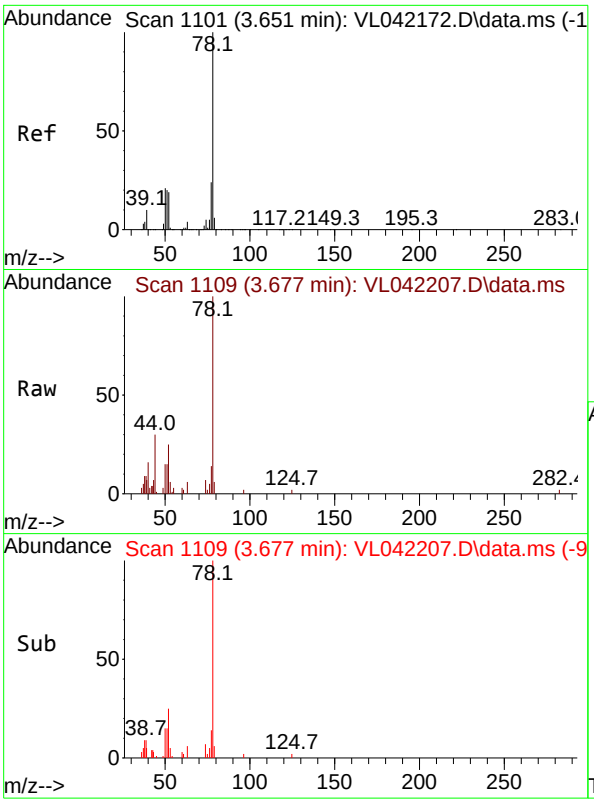


#34
2-Butanone
Concen: 0.216 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.022 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 43 Resp: 8334

Ion	Ratio	Lower	Upper
43	100		
72	25.1	18.2	27.2



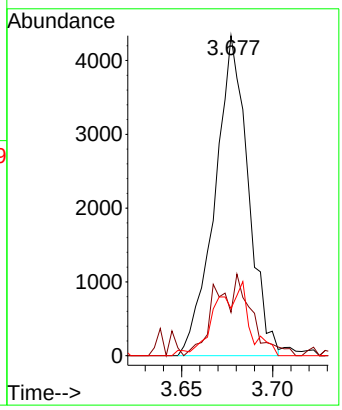


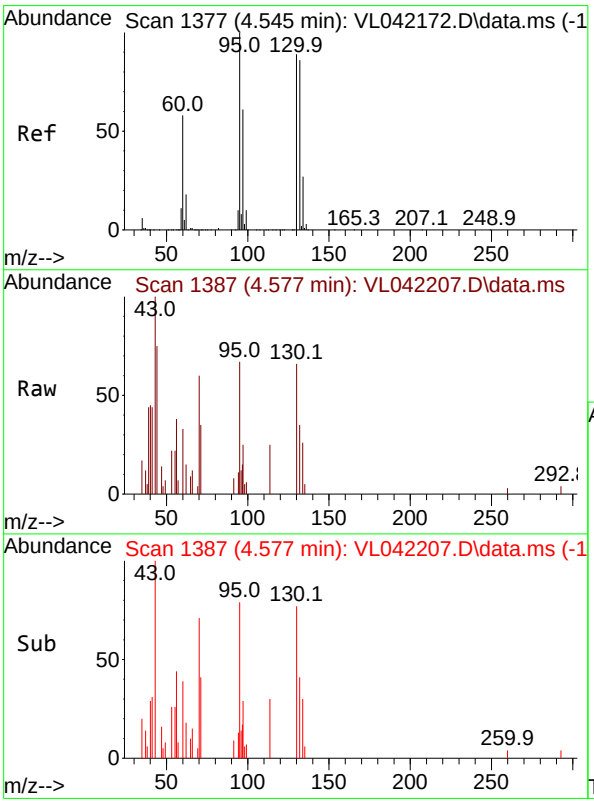
#36
Benzene
Concen: 0.105 ppbv
RT: 3.677 min Scan# 1
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 78 Resp: 5514

Ion	Ratio	Lower	Upper
78	100		
77	11.1	19.1	28.7#
50	13.2	16.6	24.8#

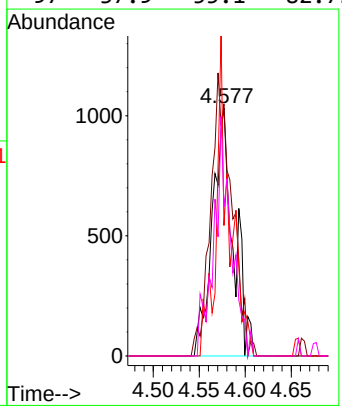


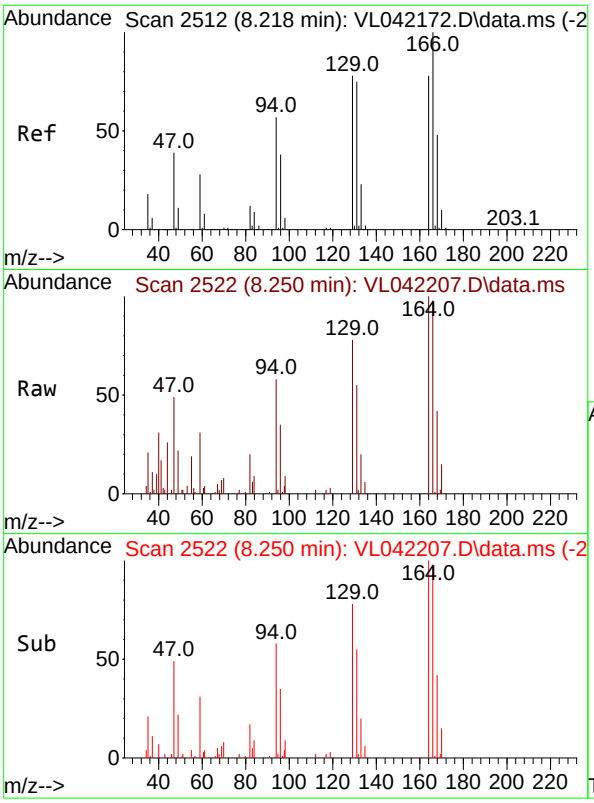


#38
Trichloroethene
Concen: 0.074 ppbv m
RT: 4.577 min Scan# 1387
Delta R.T. 0.032 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion:130 Resp: 1630

Ion	Ratio	Lower	Upper
130	100		
95	101.6	89.8	134.8
132	52.6	77.4	116.2#
97	37.9	55.1	82.7#



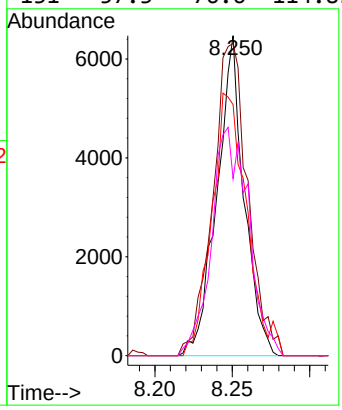


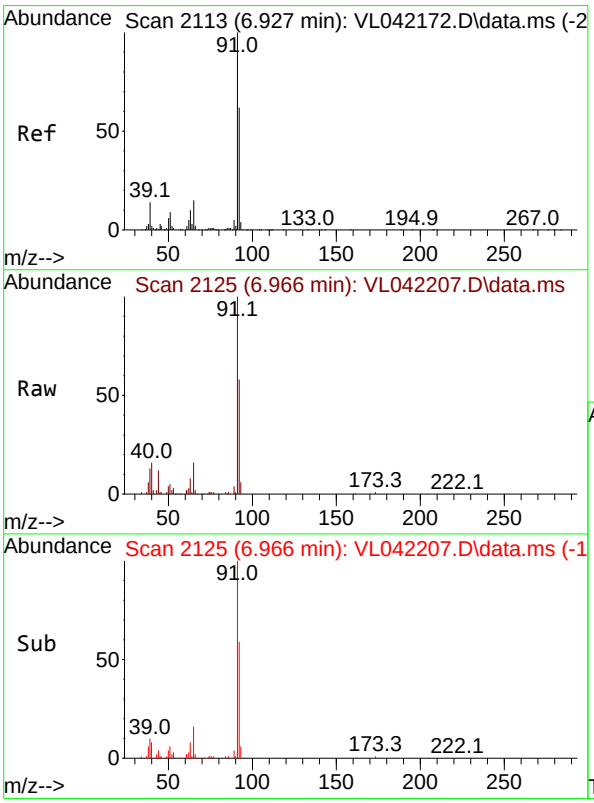
#52
Tetrachloroethene
Concen: 0.377 ppbv
RT: 8.250 min Scan# 2
Delta R.T. 0.032 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:164 Resp: 7895

Ion	Ratio	Lower	Upper
164	100		
166	97.6	102.5	153.7#
129	78.5	79.8	119.8#
131	57.3	76.6	114.8#

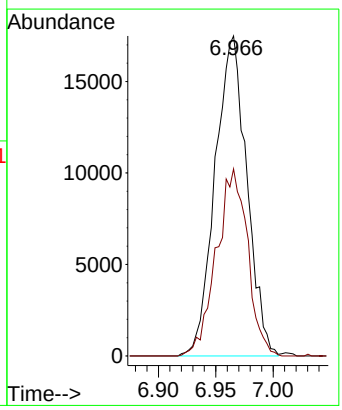


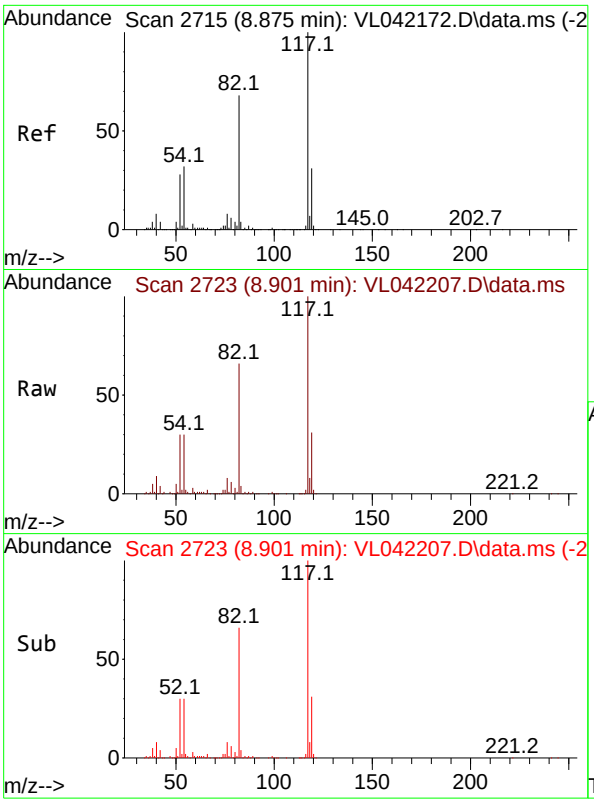


#53
Toluene
Concen: 0.539 ppbv
RT: 6.966 min Scan# 2125
Delta R.T. 0.039 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 91 Resp: 33676

Ion	Ratio	Lower	Upper
91	100		
92	57.3	48.4	72.6



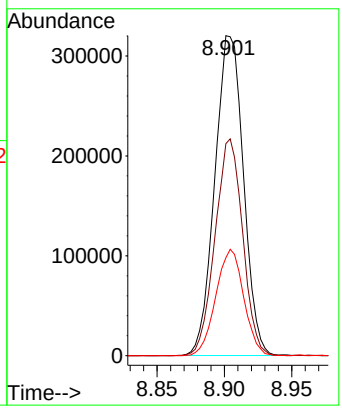


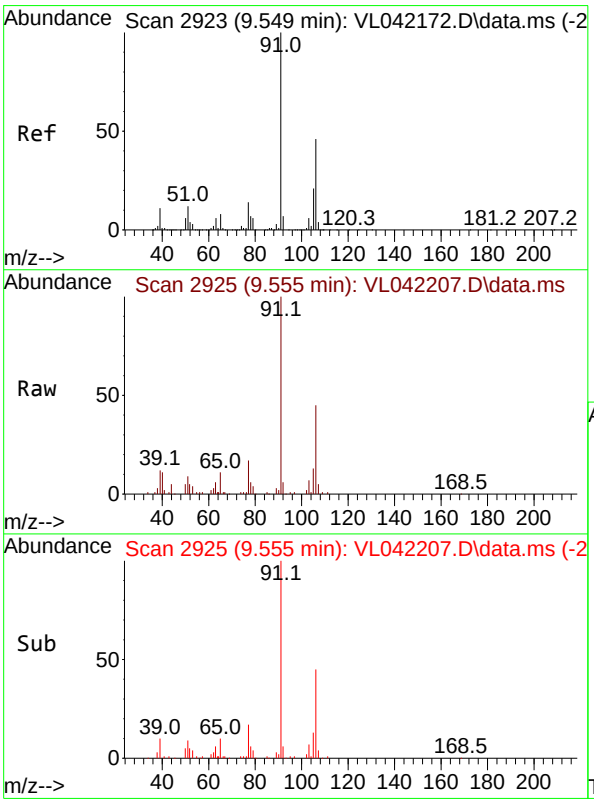
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:117 Resp: 474470

Ion	Ratio	Lower	Upper
117	100		
82	65.3	55.8	83.6
119	32.5	25.5	38.3

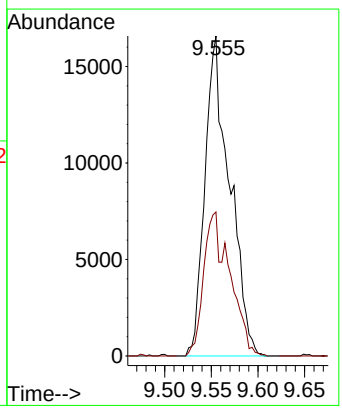


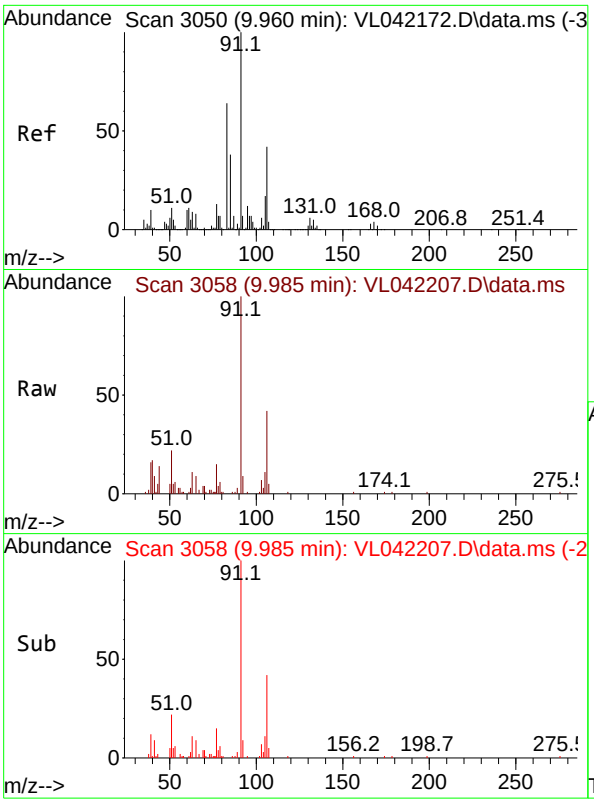


#59
m/p-Xylene
Concen: 0.452 ppbv m
RT: 9.555 min Scan# 2925
Delta R.T. 0.006 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 91 Resp: 30419

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.4	54.6#



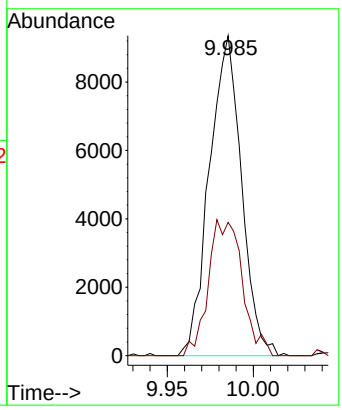


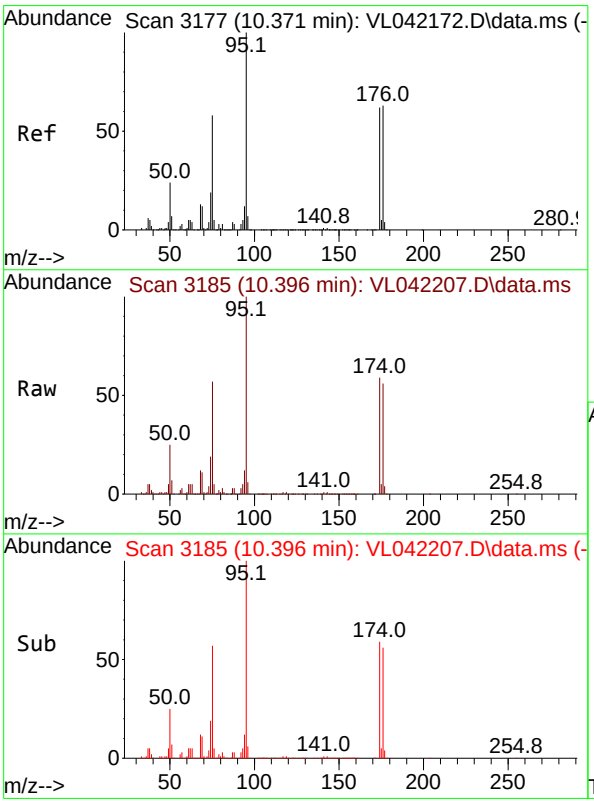
#60
o-Xylene
Concen: 0.180 ppbv
RT: 9.985 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 12139

Ion	Ratio	Lower	Upper
91	100		
106	44.8	20.8	62.5

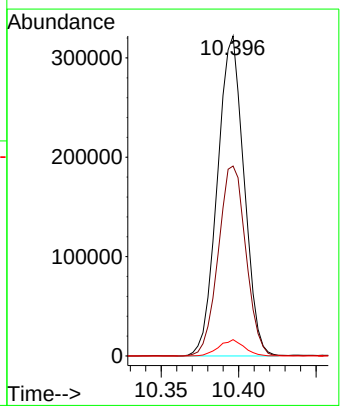


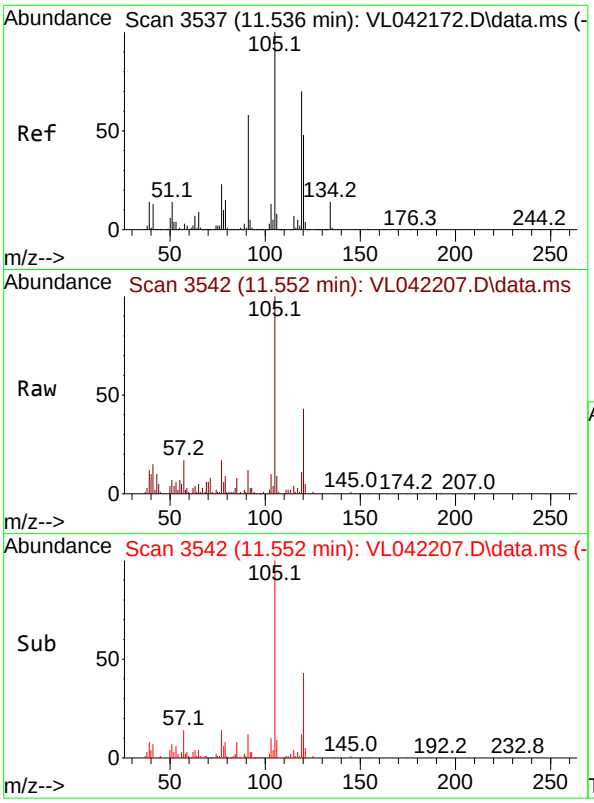


#68
1-Bromo-4-Fluorobenzene
Concen: 9.872 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 95 Resp: 384646

Ion	Ratio	Lower	Upper
95	100		
174	61.7	50.6	76.0
175	4.9	3.8	5.6



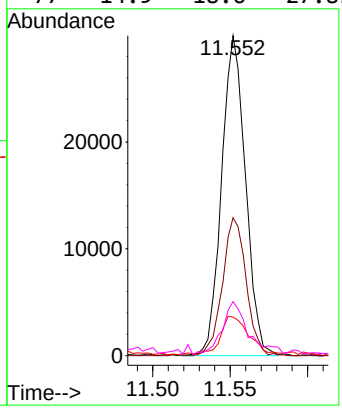


#74
1,2,4-Trimethylbenzene
Concen: 0.380 ppbv
RT: 11.552 min Scan# 3
Delta R.T. 0.016 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:105 Resp: 32137

Ion	Ratio	Lower	Upper
105	100		
120	42.9	38.6	58.0
91	11.7	46.2	69.2#
77	14.9	18.6	27.8#



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

Report of Analysis

Client:	GFE LLC	Date Collected:	03/25/25
Project:	223 W. 29th St NY, NY	Date Received:	03/26/25
Client Sample ID:	SV2	SDG No.:	Q1649
Lab Sample ID:	Q1649-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042208.D	4		03/31/25 13:36	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	U	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.39	0.81	U	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	U	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	U	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	U	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	U	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	U	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	U	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	U	2.30	6.06	ug/m3
142-82-5	Heptane	1.80	7.38	J	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
67-64-1	Acetone	8.90	21.1		2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	U	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	U	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	2.40	8.34		2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	U	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.73	2.15	J	1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	U	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	U	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.62	2.90	J	1.87	9.34	ug/m3
71-43-2	Benzene	0.82	2.62	J	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.34	1.83		0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	U	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	U	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.37	1.52	U	1.52	8.20	ug/m3
108-88-3	Toluene	2.60	9.80		1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	U	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	U	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	U	1.53	10.9	ug/m3

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Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	03/25/25
Project:	223 W. 29th St NY, NY	Date Received:	03/26/25
Client Sample ID:	SV2	SDG No.:	Q1649
Lab Sample ID:	Q1649-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042208.D	4		03/31/25 13:36	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	U	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	6.50	44.1		0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	U	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	0.60	2.61	J	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	2.80	12.2	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	1.10	4.78	J	2.08	8.69	ug/m3
100-42-5	Styrene	0.44	1.87	U	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	U	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	U	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.53	2.61	J	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	2.00	9.83		1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	U	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	U	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	U	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	U	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	U	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	U	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	0.55	2.70	J	2.36	9.83	ug/m3
110-54-3	Hexane	31.0	109		1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	U	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	U	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	U	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	186000		2.806			
540-36-3	1,4-Difluorobenzene	530000		3.988			
3114-55-4	Chlorobenzene-d5	478000		8.907			

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

Report of Analysis

Client:	GFE LLC	Date Collected:	03/25/25
Project:	223 W. 29th St NY, NY	Date Received:	03/26/25
Client Sample ID:	SV2	SDG No.:	Q1649
Lab Sample ID:	Q1649-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042208.D	4		03/31/25 13:36	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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

E = Value Exceeds Calibration Range

D = Dilution

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

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042208.D
Acq On : 31 Mar 2025 13:36
Operator : SY/MD
Sample : Q1649-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Apr 01 01:39:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.806	49	185856	10.000	ppbv		0.02
33) 1,4-Difluorobenzene	3.988	114	529863	10.000	ppbv		0.04
55) Chlorobenzene-d5	8.907	117	478116	10.000	ppbv		0.03
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.400	95	376053	9.578	ppbv		0.03
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	4751	0.173	ppbv		91
3) Chlorodifluoromethane	1.483	51	4223m	0.151	ppbv		
9) Propene	1.492	41	23121	1.799	ppbv		89
10) Heptane	5.024	43	14961m	0.438	ppbv		
13) Ethanol	1.732	45	10254	8.442	ppbv	#	27
15) Acetone	1.852	43	57758	2.222	ppbv	#	75
20) Methylene Chloride	2.075	84	5788	0.598	ppbv		91
26) Hexane	2.845	57	202226	7.761	ppbv	#	29
30) Cyclohexane	3.887	84	4298m	0.190	ppbv		
34) 2-Butanone	2.580	43	6987	0.182	ppbv		100
36) Benzene	3.684	78	10828	0.206	ppbv	#	89
38) Trichloroethene	4.583	130	1895m	0.086	ppbv		
44) 2,2,4-Trimethylpentane	4.680	57	13836m	0.156	ppbv		
52) Tetrachloroethene	8.257	164	33600	1.613	ppbv	#	86
53) Toluene	6.972	91	41185	0.661	ppbv		99
58) Ethyl Benzene	9.383	91	12675	0.149	ppbv		99
59) m/p-Xylene	9.558	91	47626m	0.702	ppbv		
60) o-Xylene	9.989	91	19197	0.282	ppbv		99
72) 4-Ethyltoluene	11.144	105	11557	0.137	ppbv	#	83
73) 1,3,5-Trimethylbenzene	11.228	105	9755	0.132	ppbv		93
74) 1,2,4-Trimethylbenzene	11.555	105	41806	0.491	ppbv	#	64

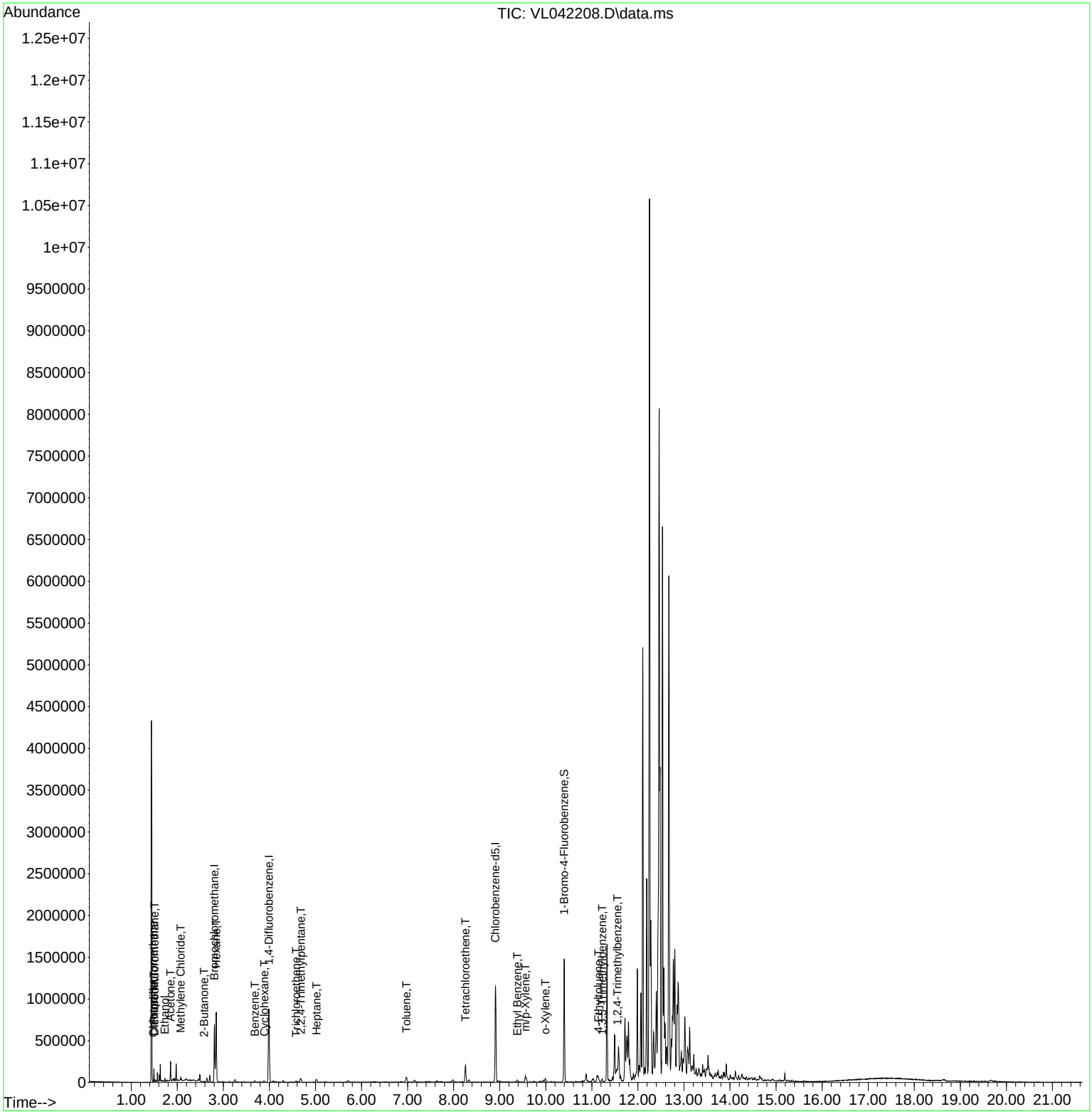
(#) = qualifier out of range (m) = manual integration (+) = signals summed

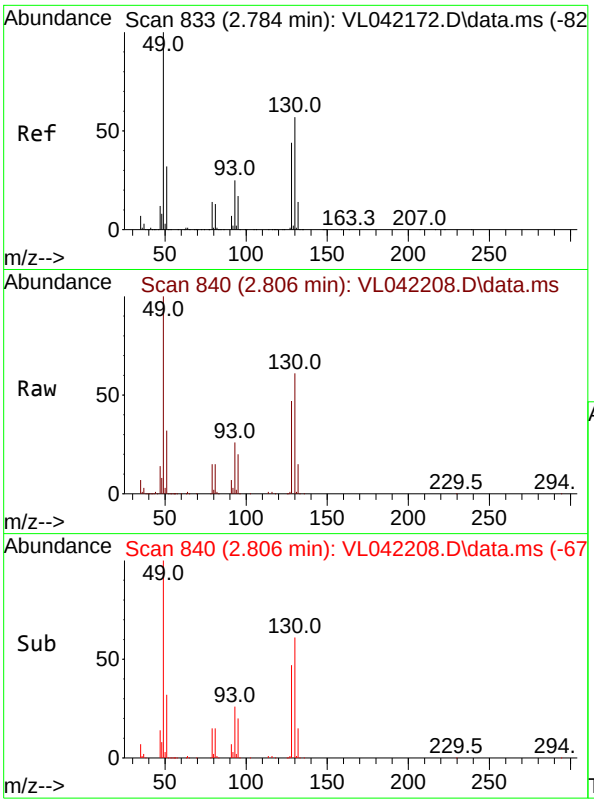
Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042208.D
Acq On : 31 Mar 2025 13:36
Operator : SY/MD
Sample : Q1649-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Apr 01 01:39:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



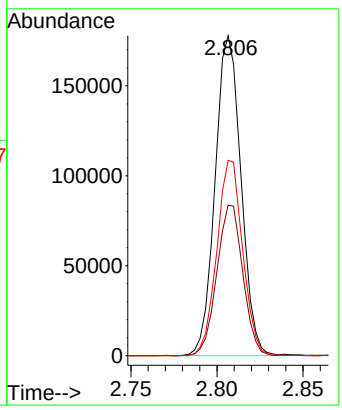


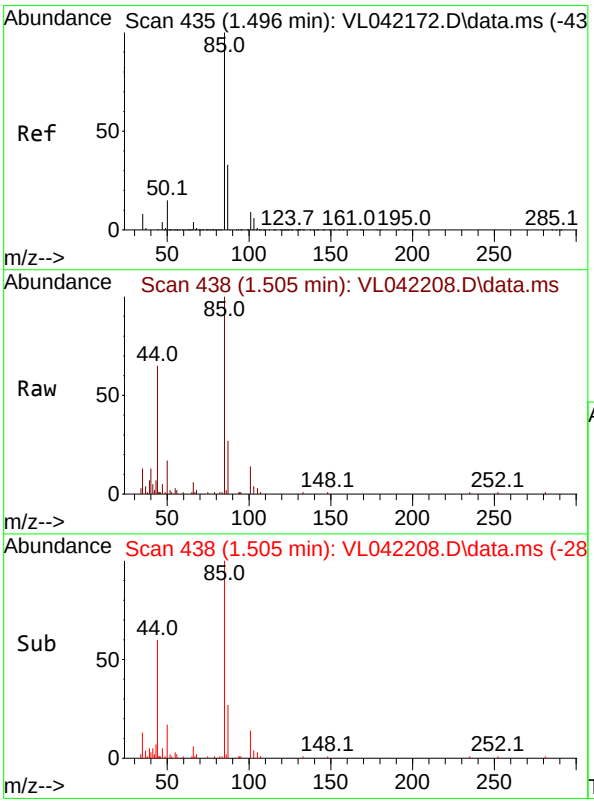
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.022 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 185856

Ion	Ratio	Lower	Upper
49	100		
128	47.3	22.9	68.5
130	61.0	28.8	86.4

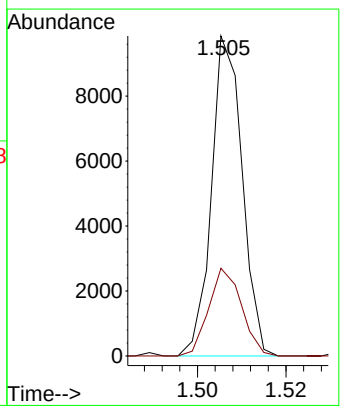


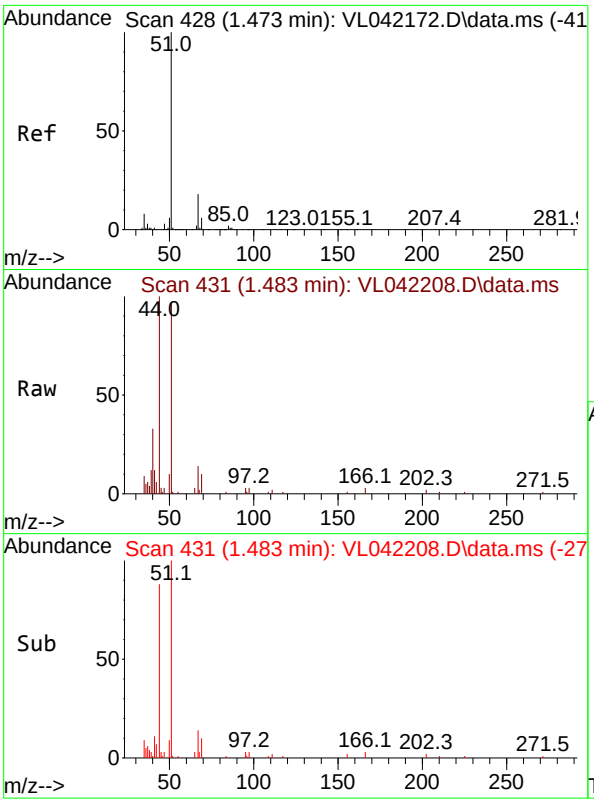


#2
Dichlorodifluoromethane
Concen: 0.173 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 85 Resp: 4751

Ion	Ratio	Lower	Upper
85	100		
87	27.4	26.1	39.1



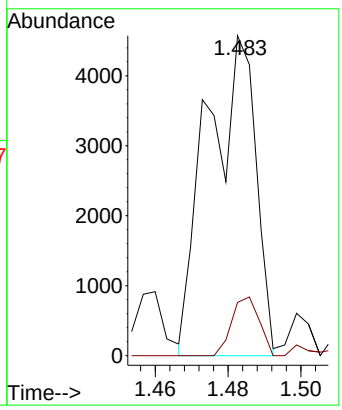


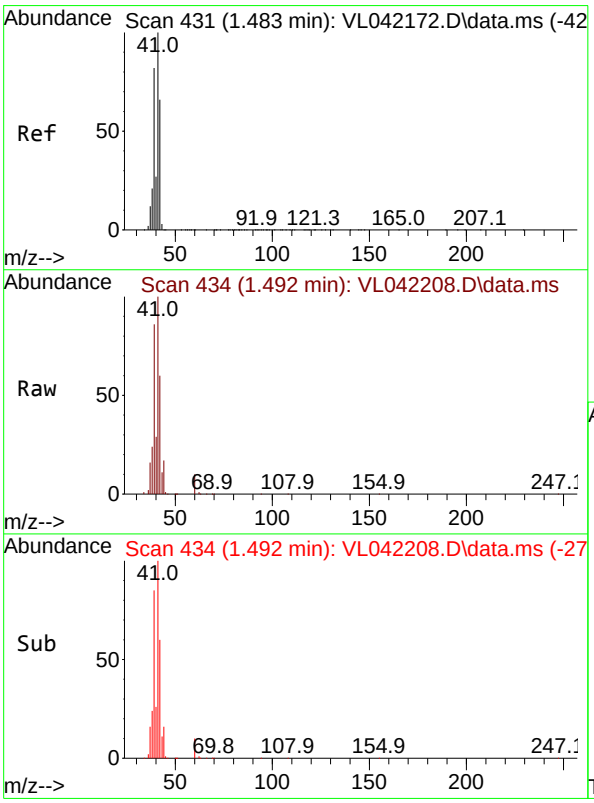
#3
Chlorodifluoromethane
Concen: 0.151 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 51 Resp: 4223

Ion	Ratio	Lower	Upper
51	100		
67	11.7	15.0	22.6#

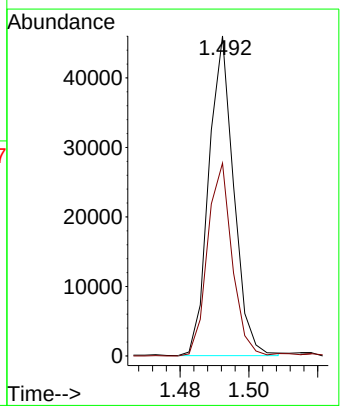


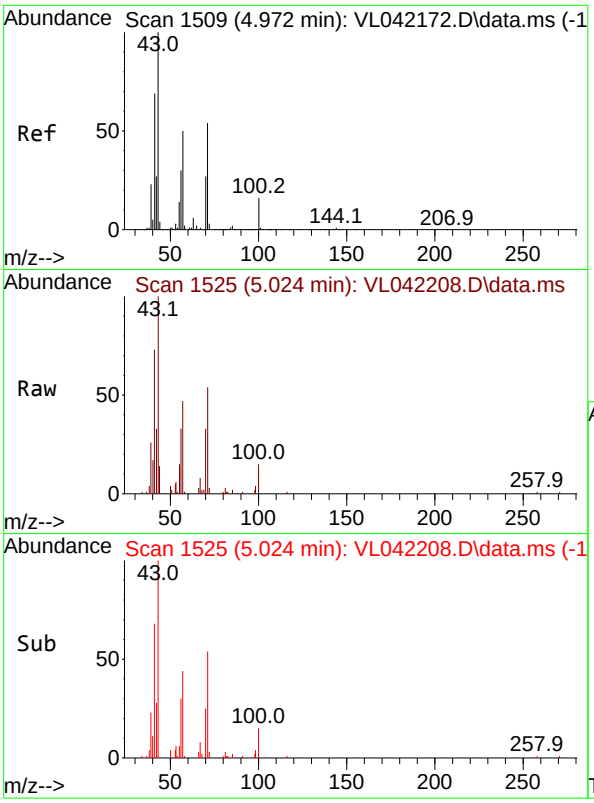


#9
Propene
Concen: 1.799 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 41 Resp: 23121

Ion	Ratio	Lower	Upper
41	100		
42	60.5	55.4	83.2



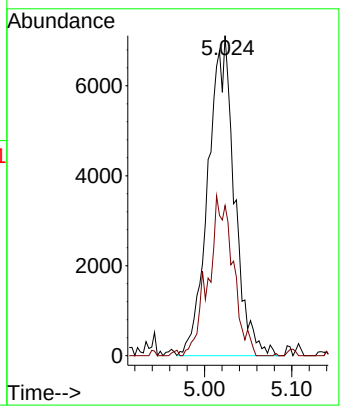


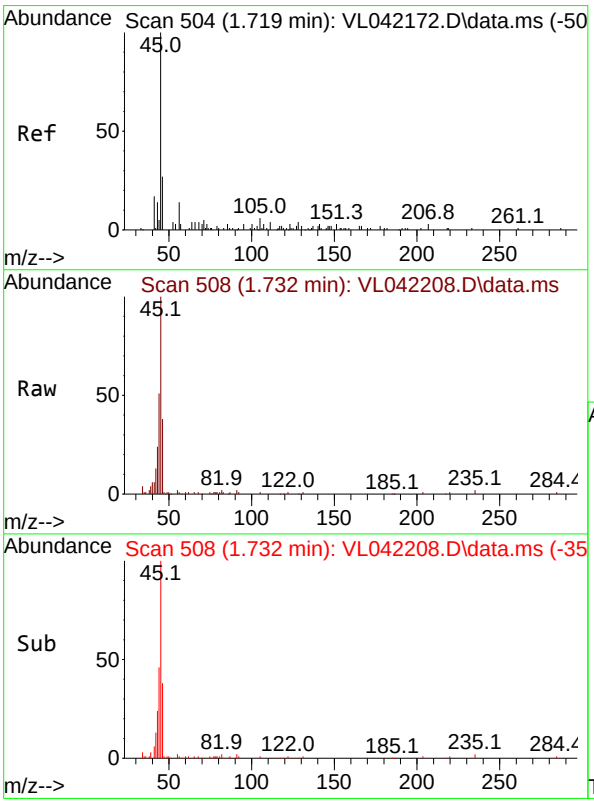
#10
Heptane
Concen: 0.438 ppbv m
RT: 5.024 min Scan# 1
Delta R.T. 0.052 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 14961

Ion	Ratio	Lower	Upper
43	100		
57	47.3	39.4	59.2

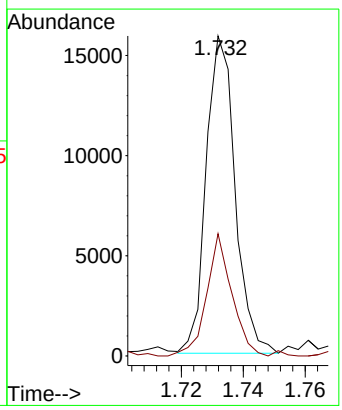


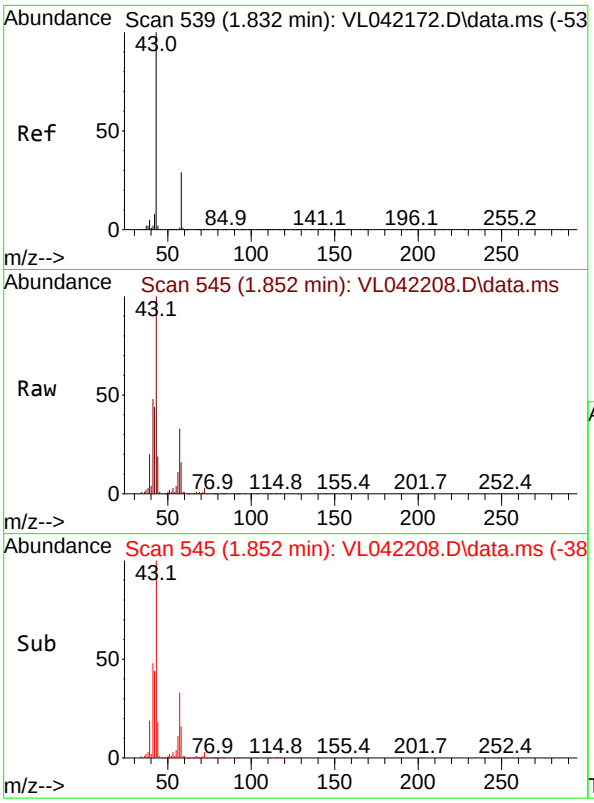


#13
Ethanol
Concen: 8.442 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 45 Resp: 10254

Ion	Ratio	Lower	Upper
45	100		
46	0.0	20.2	80.8#



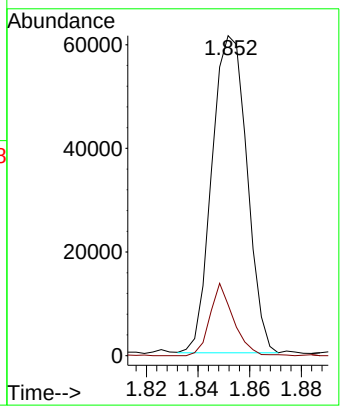


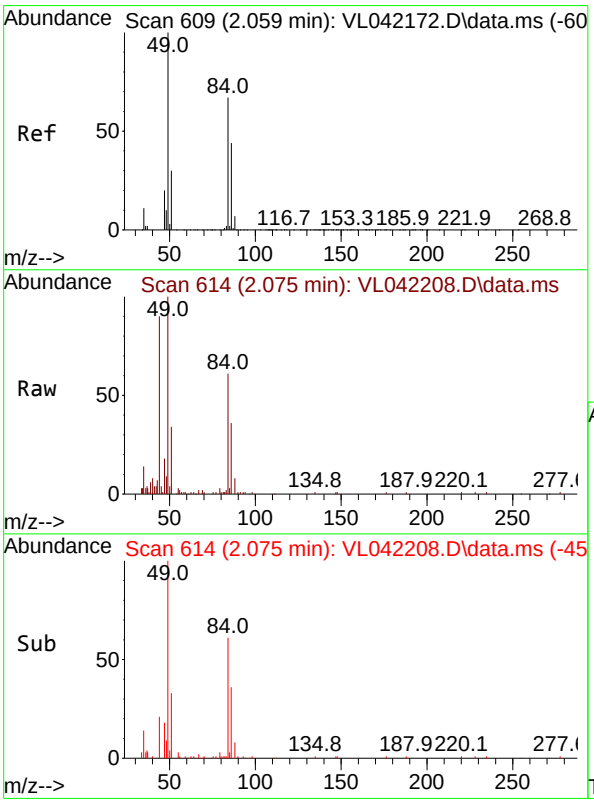
#15
Acetone
Concen: 2.222 ppbv
RT: 1.852 min Scan# 54
Delta R.T. 0.019 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 57758

Ion	Ratio	Lower	Upper
43	100		
58	15.7	23.2	34.8#

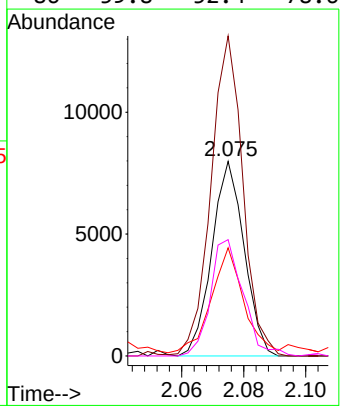


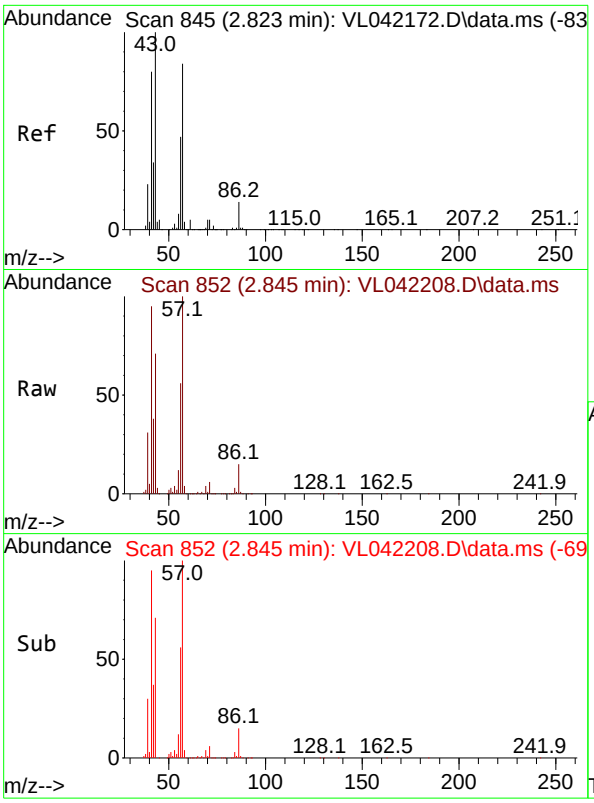


#20
Methylene Chloride
Concen: 0.598 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 84 Resp: 5788

Ion	Ratio	Lower	Upper
84	100		
49	163.3	120.2	180.4
51	52.8	37.4	56.0
86	59.8	52.4	78.6



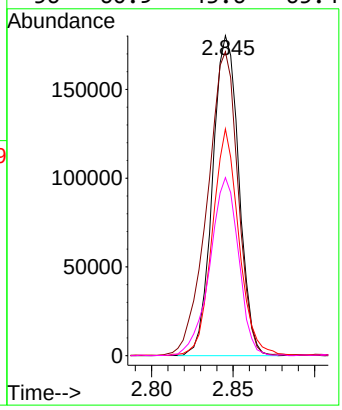


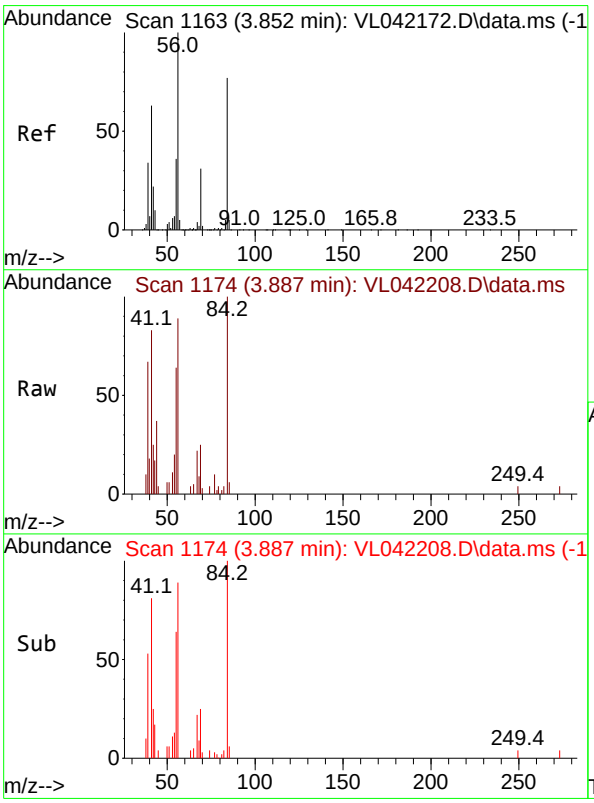
#26
Hexane
Concen: 7.761 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.022 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 57 Resp: 202226

Ion	Ratio	Lower	Upper
57	100		
41	110.9	76.6	114.8
43	72.4	207.8	311.8#
56	60.9	43.6	65.4

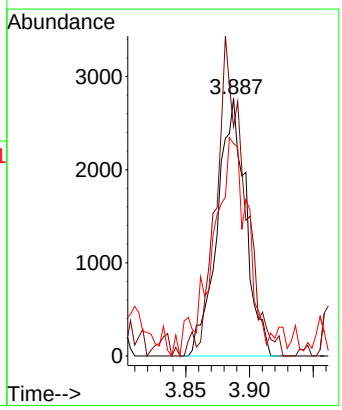


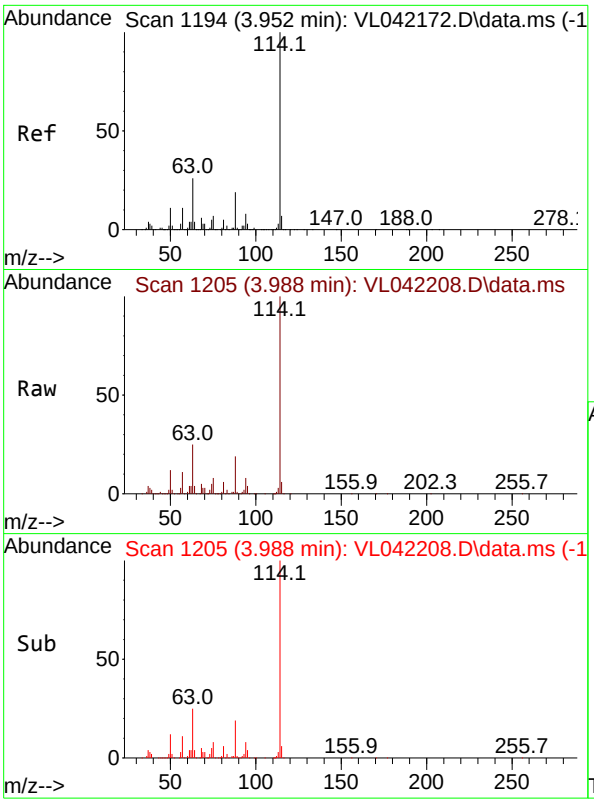


#30
Cyclohexane
Concen: 0.190 ppbv m
RT: 3.887 min Scan# 1174
Delta R.T. 0.035 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 84 Resp: 4298

Ion	Ratio	Lower	Upper
84	100		
56	122.5	102.8	154.2
41	110.4	66.5	99.7#



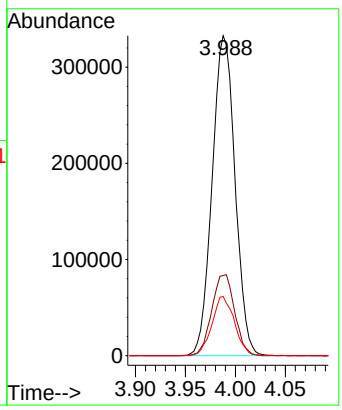


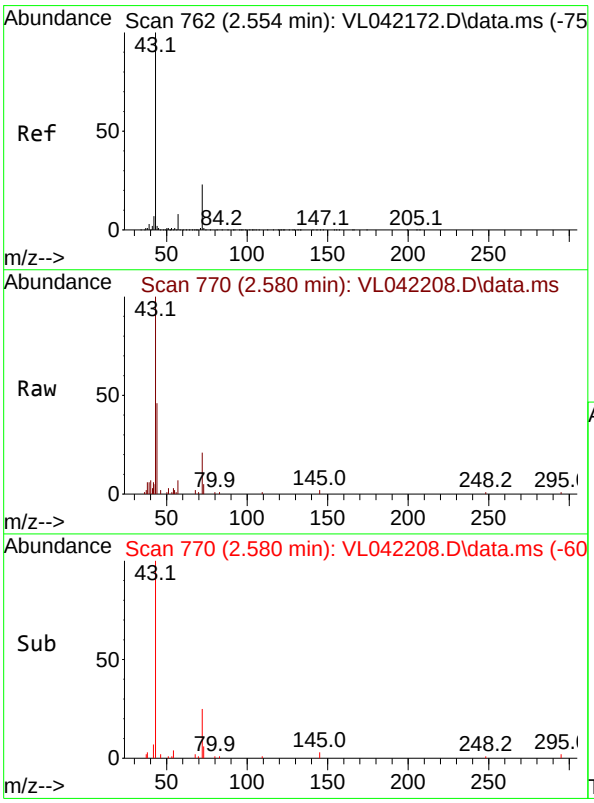
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.988 min Scan# 1
Delta R.T. 0.035 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:114 Resp: 529863

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.7	31.1
88	18.1	15.0	22.4

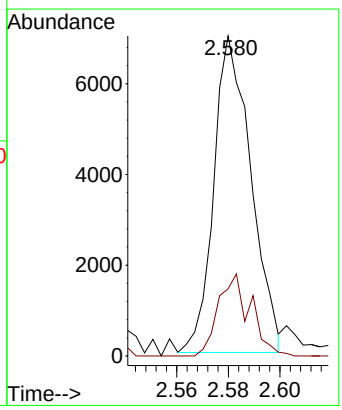


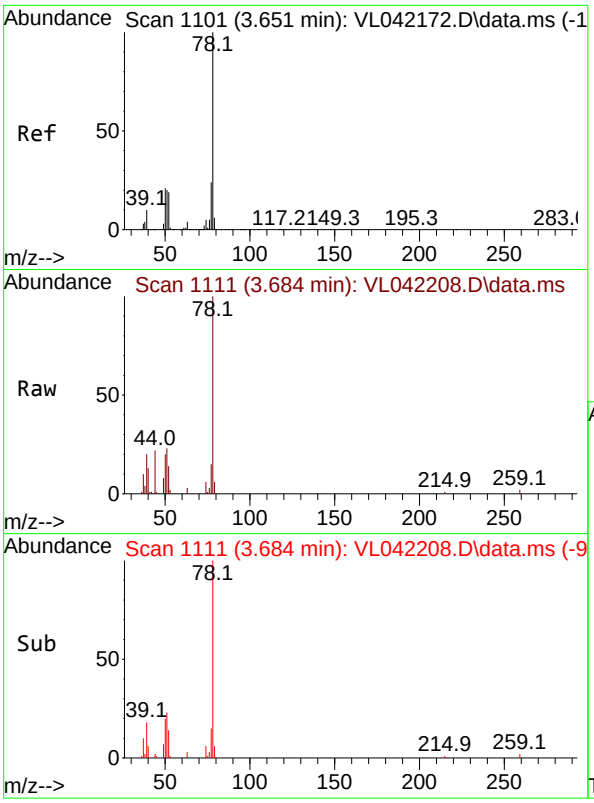


#34
2-Butanone
Concen: 0.182 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.026 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 43 Resp: 6987

Ion	Ratio	Lower	Upper
43	100		
72	22.5	18.2	27.2



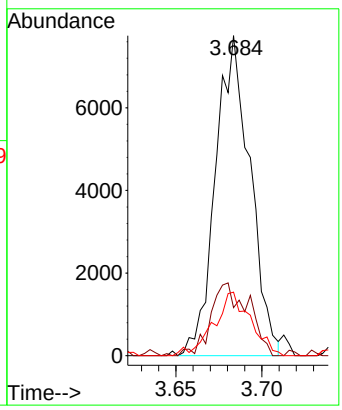


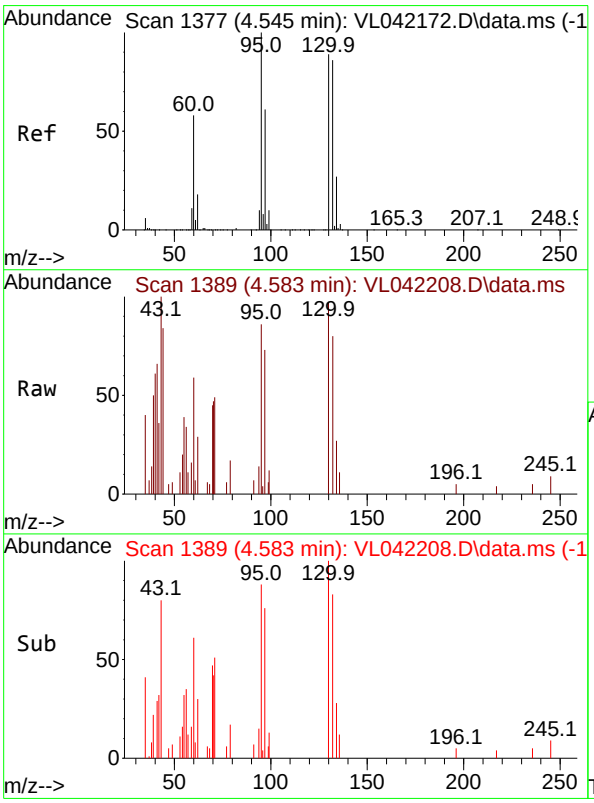
#36
Benzene
Concen: 0.206 ppbv
RT: 3.684 min Scan# 1
Delta R.T. 0.032 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 78 Resp: 10828

Ion	Ratio	Lower	Upper
78	100		
77	15.0	19.1	28.7#
50	18.9	16.6	24.8

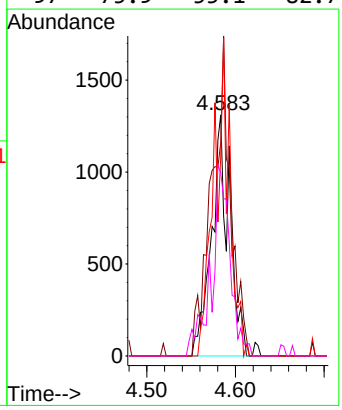


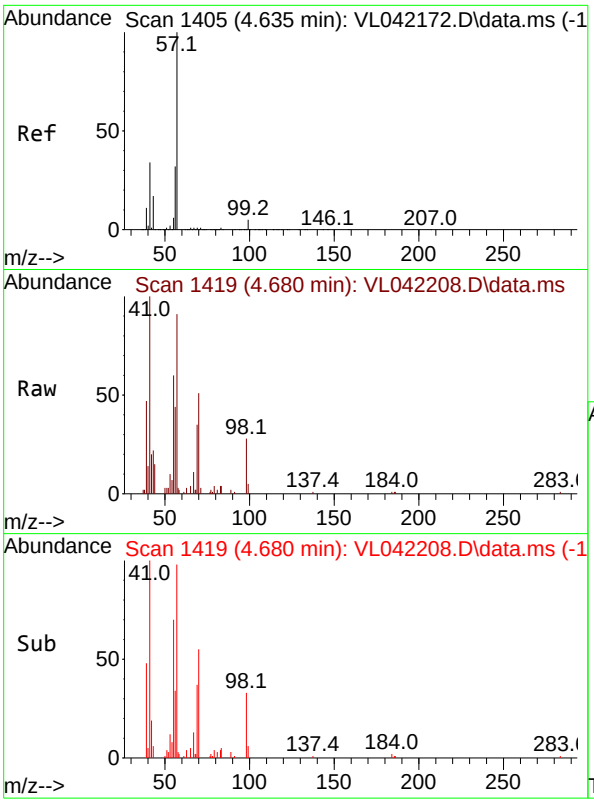


#38
Trichloroethene
Concen: 0.086 ppbv m
RT: 4.583 min Scan# 1389
Delta R.T. 0.039 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion:130 Resp: 1895

Ion	Ratio	Lower	Upper
130	100		
95	88.5	89.8	134.8#
132	82.9	77.4	116.2
97	75.9	55.1	82.7



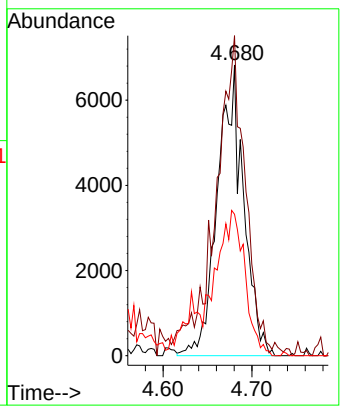


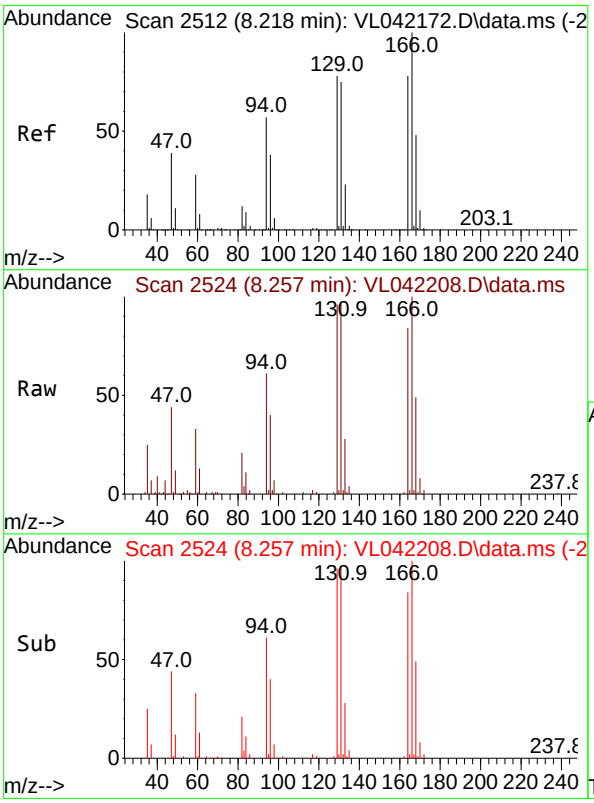
#44
2,2,4-Trimethylpentane
Concen: 0.156 ppbv m
RT: 4.680 min Scan# 14
Delta R.T. 0.045 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 57 Resp: 13836

Ion	Ratio	Lower	Upper
57	100		
41	126.8	26.8	40.2#
56	68.7	25.6	38.4#

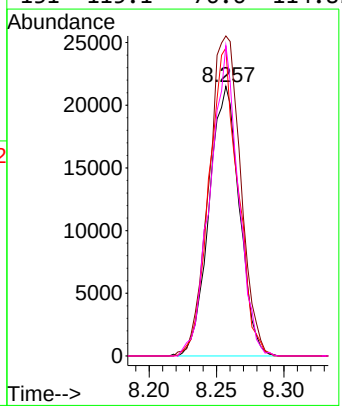


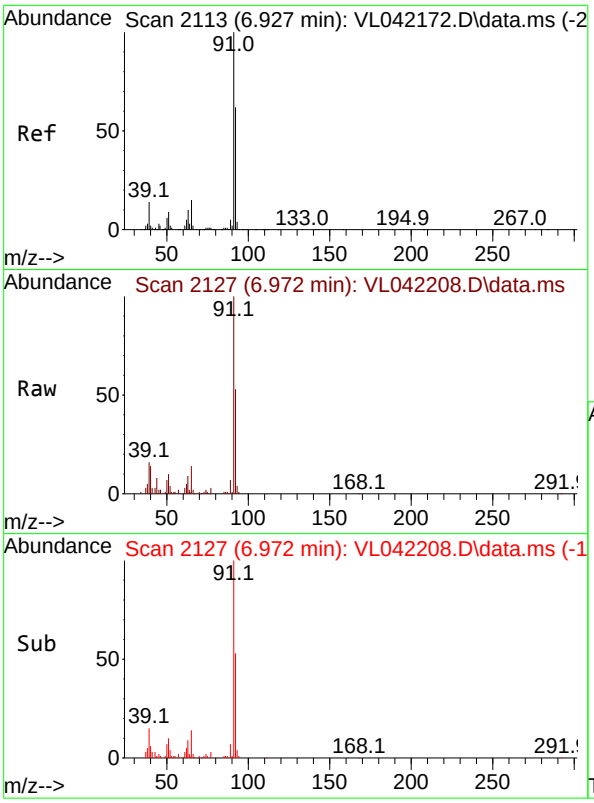


#52
Tetrachloroethene
Concen: 1.613 ppbv
RT: 8.257 min Scan# 2524
Delta R.T. 0.039 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion:164 Resp: 33600

Ion	Ratio	Lower	Upper
164	100		
166	118.7	102.5	153.7
129	114.2	79.8	119.8
131	115.1	76.6	114.8#



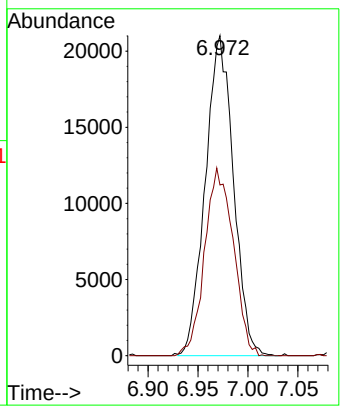


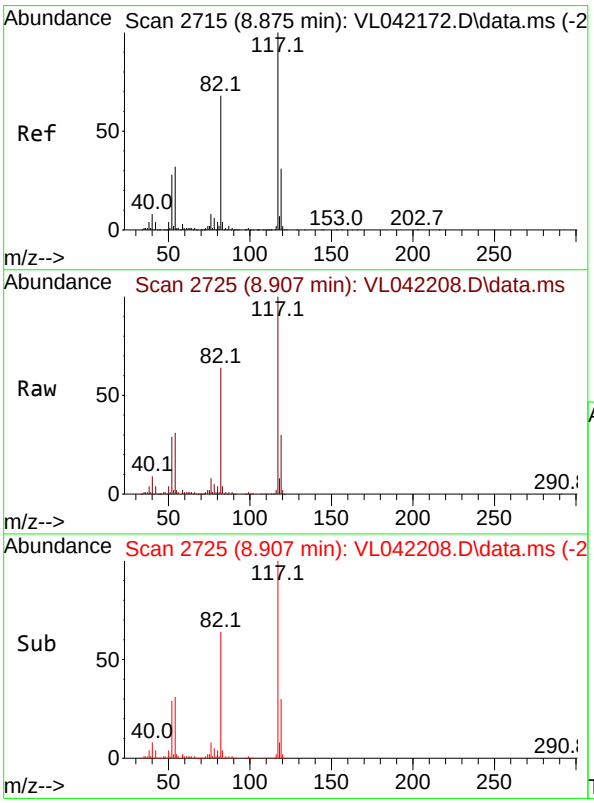
#53
Toluene
Concen: 0.661 ppbv
RT: 6.972 min Scan# 21
Delta R.T. 0.045 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 41185

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.4	72.6

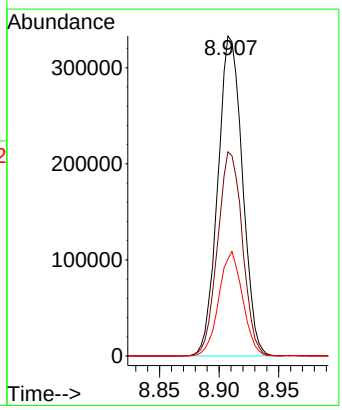


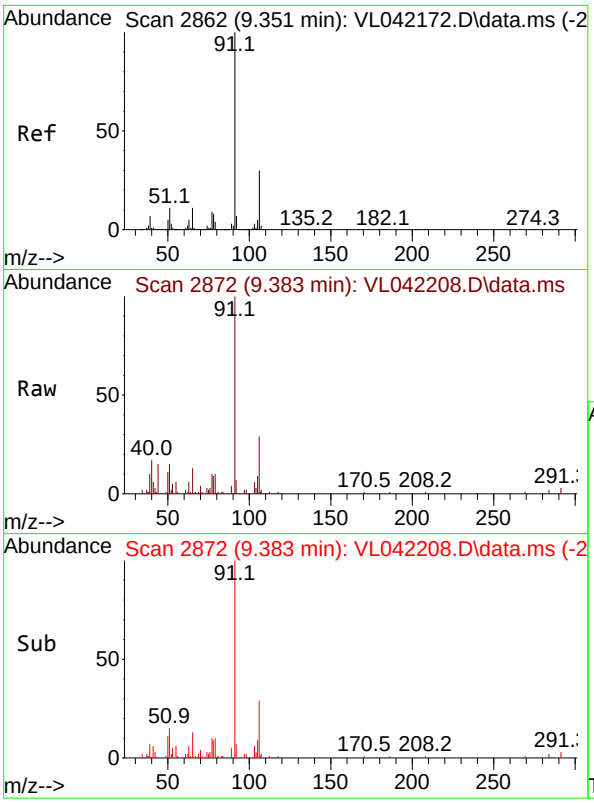


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.907 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion:117 Resp: 478116

Ion	Ratio	Lower	Upper
117	100		
82	64.4	55.8	83.6
119	31.6	25.5	38.3



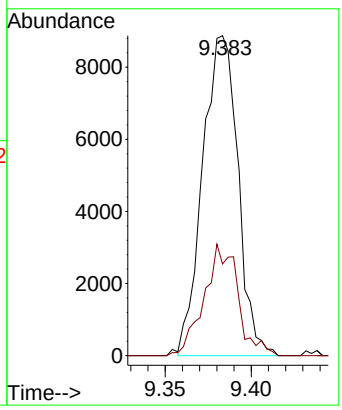


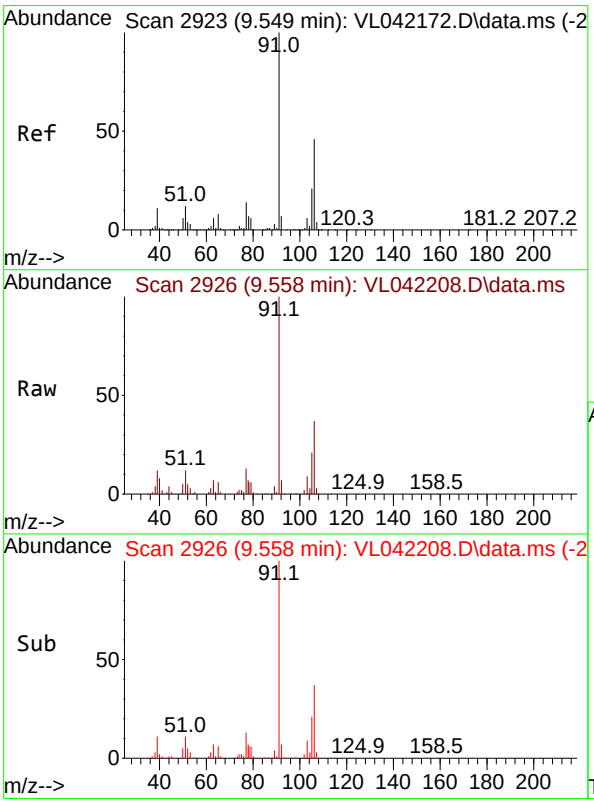
#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 9.383 min Scan# 2
Delta R.T. 0.032 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 12675

Ion	Ratio	Lower	Upper
91	100		
106	29.5	24.2	36.2

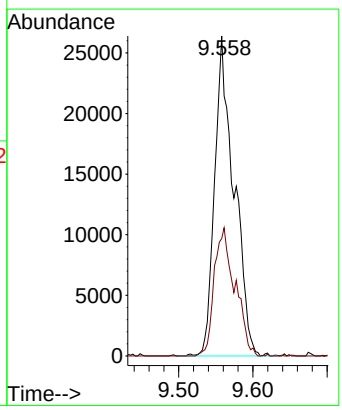


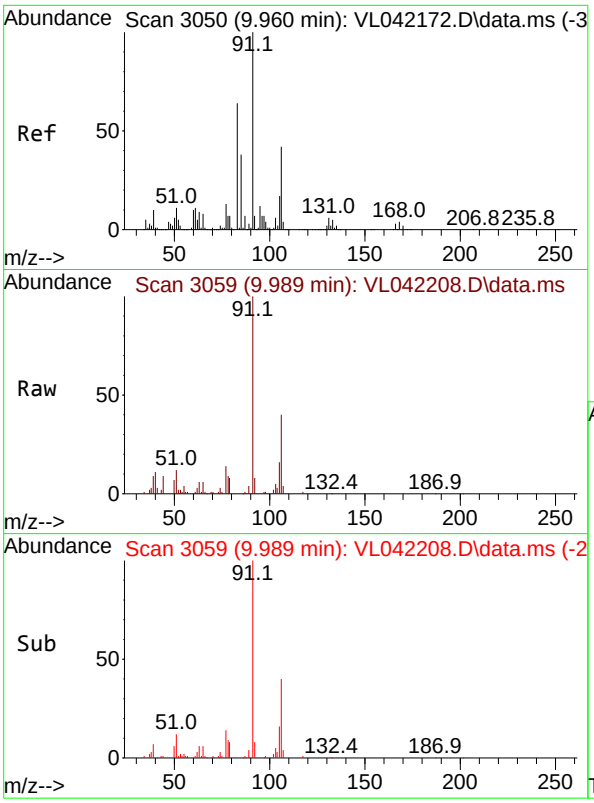


#59
m/p-Xylene
Concen: 0.702 ppbv m
RT: 9.558 min Scan# 2926
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 91 Resp: 47626

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.4	54.6#



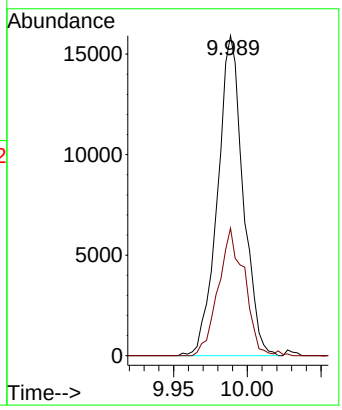


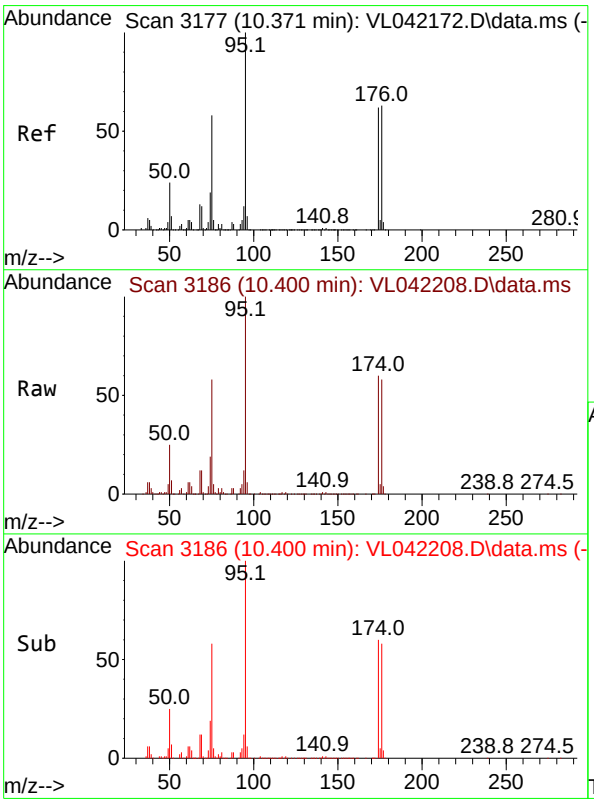
#60
o-Xylene
Concen: 0.282 ppbv
RT: 9.989 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 19197

Ion	Ratio	Lower	Upper
91	100		
106	41.0	20.8	62.5

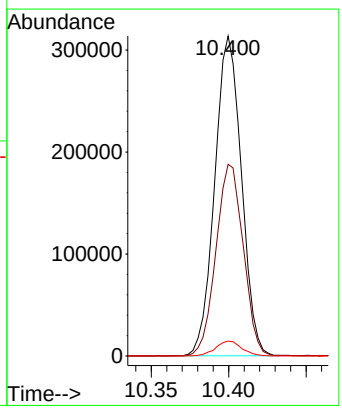


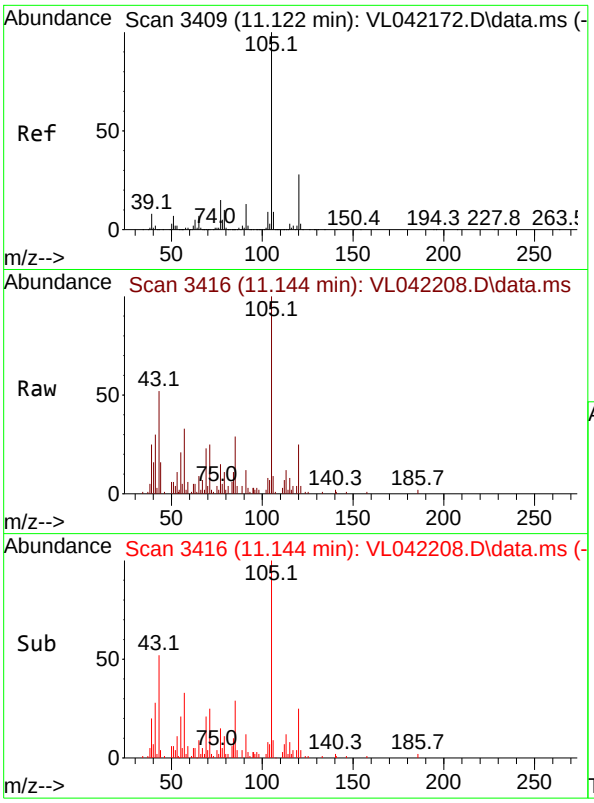


#68
1-Bromo-4-Fluorobenzene
Concen: 9.578 ppbv
RT: 10.400 min Scan# 3186
Delta R.T. 0.029 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 95 Resp: 376053

Ion	Ratio	Lower	Upper
95	100		
174	61.4	50.6	76.0
175	4.6	3.8	5.6



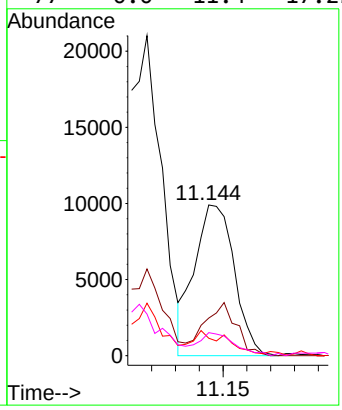


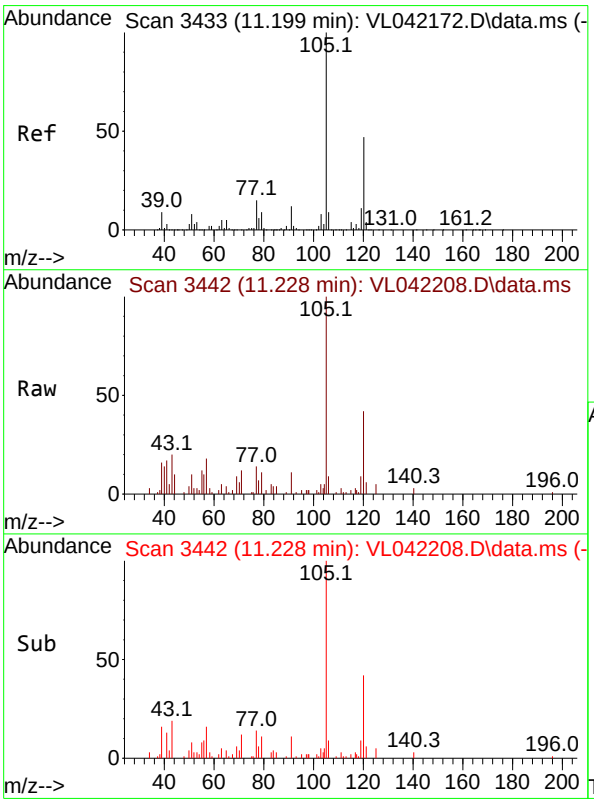
#72
4-Ethyltoluene
Concen: 0.137 ppbv
RT: 11.144 min Scan# 34
Delta R.T. 0.022 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 11557

Ion	Ratio	Lower	Upper
105	100		
120	28.2	23.4	35.0
91	0.0	10.3	15.5#
77	0.0	11.4	17.2#

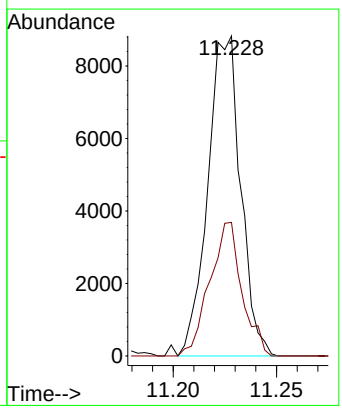


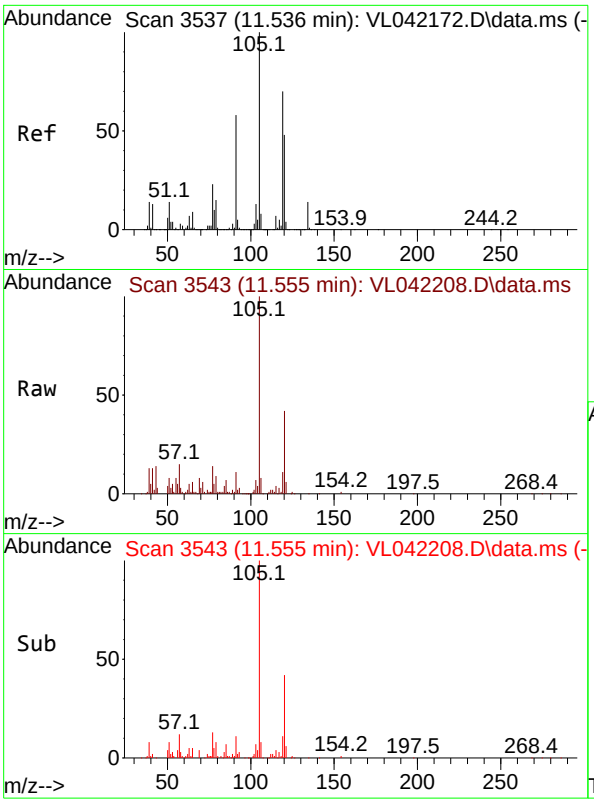


#73
1,3,5-Trimethylbenzene
Concen: 0.132 ppbv
RT: 11.228 min Scan# 3442
Delta R.T. 0.029 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion:105 Resp: 9755

Ion	Ratio	Lower	Upper
105	100		
120	41.8	37.4	56.0



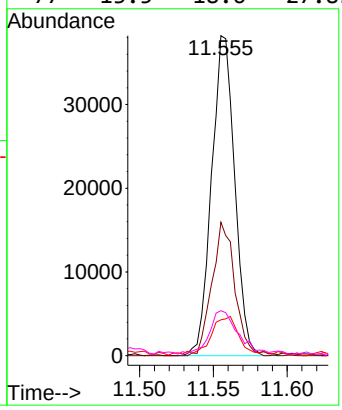


#74
1,2,4-Trimethylbenzene
Concen: 0.491 ppbv
RT: 11.555 min Scan# 3
Delta R.T. 0.019 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 41806

Ion	Ratio	Lower	Upper
105	100		
120	41.7	38.6	58.0
91	10.3	46.2	69.2#
77	13.5	18.6	27.8#



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG No.: Q1649

Instrument ID: MSVOA_L Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:26 11:36

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

LAB FILE ID: RRF010 = VL042172.D RRF002 = VL042173.D RRF001 = VL042174.D
RRF0.5 = VL042175.D RRF0.1 = VL042176.D RRF.03 = VL042177.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.404	1.483	1.514	1.602			1.476	6
Chloromethane	0.573	0.618	0.597	0.660			0.603	6.2
Vinyl Chloride	0.549	0.584	0.576	0.635	0.705	0.882	0.639	18.8
Bromomethane	0.256	0.266	0.268	0.327			0.273	11.2
Chloroethane	0.227	0.223	0.248	0.286			0.242	10.9
Tetrahydrofuran	0.398	0.432	0.425	0.439			0.418	5
Trichlorofluoromethane	1.339	1.480	1.457	1.562			1.437	6.6
1,1,2-Trichlorotrifluoroethane	1.120	1.188	1.215	1.247			1.181	4.5
Dichlorotetrafluoroethane	1.214	1.274	1.283	1.306			1.257	3.4
tert-Butyl alcohol	1.618	1.756	1.799	1.935			1.742	7.9
Heptane	1.792	1.897	1.940	1.847			1.839	4.7
1,1-Dichloroethene	0.504	0.560	0.565	0.624			0.552	9
Acetone	1.113	1.469	1.573	1.699			1.399	18.7
Carbon Disulfide	1.436	1.539	1.512	1.608			1.503	5.1
Methyl tert-Butyl Ether	0.831	0.894	0.886	0.921			0.873	4.6
Methylene Chloride	0.438	0.545	0.563	0.624			0.521	15.9
trans-1,2-Dichloroethene	0.590	0.621	0.701	0.704			0.638	9.6
1,1-Dichloroethane	1.122	1.187	1.208	1.247			1.183	4.2
Cyclohexane	1.162	1.211	1.238	1.337			1.217	6.3
2-Butanone	0.667	0.770	0.771	0.754			0.725	7.6
Carbon Tetrachloride	0.703	0.748	0.732	0.709	0.782	1.069	0.781	16.6
cis-1,2-Dichloroethene	1.371	1.426	1.460	1.507			1.423	4.4
Chloroform	1.932	2.071	2.068	2.233			2.052	5.8
1,1,1-Trichloroethane	2.062	2.152	2.201	2.279	2.495	3.151	2.349	16.2
2,2,4-Trimethylpentane	1.608	1.723	1.689	1.781			1.675	5
Benzene	0.934	1.013	1.027	1.050			0.991	5.5
1,2-Dichloroethane	0.537	0.563	0.569	0.613			0.568	4.9
Trichloroethene	0.374	0.398	0.408	0.438	0.437	0.463	0.414	8
1,2-Dichloropropane	0.337	0.365	0.373	0.386			0.361	5.7
Bromodichloromethane	0.769	0.802	0.779	0.778			0.782	1.6

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG No.: Q1649

Instrument ID: MSVOA_L Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:26 11:36

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

LAB FILE ID: RRF010 = VL042172.D RRF002 = VL042173.D RRF001 = VL042174.D
RRF0.5 = VL042175.D RRF0.1 = VL042176.D RRF.03 = VL042177.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	1.027	1.211	1.214	1.286			1.149	10.8
Toluene	1.125	1.202	1.203	1.239			1.175	4.8
t-1,3-Dichloropropene	0.439	0.453	0.447	0.474			0.450	3.2
cis-1,3-Dichloropropene	0.550	0.566	0.560	0.549			0.552	2.1
1,1,2-Trichloroethane	0.364	0.379	0.382	0.419			0.382	5.9
Dibromochloromethane	0.636	0.663	0.641	0.651			0.647	1.6
1,2-Dibromoethane	0.508	0.520	0.538	0.543	0.574		0.532	4.7
Tetrachloroethene	0.343	0.371	0.361	0.401	0.359	0.572	0.393	20.6
Chlorobenzene	0.875	0.994	0.979	1.024			0.949	7.5
Ethyl Benzene	1.671	1.894	1.822	1.850			1.776	6.3
m/p-Xylene	1.321	1.484	1.472	1.505			1.418	6.7
o-Xylene	1.328	1.499	1.475	1.521			1.422	7.5
Styrene	0.683	0.735	0.722	0.709			0.703	3.9
Bromoform	0.582	0.597	0.588	0.566			0.581	2.2
1,1,2,2-Tetrachloroethane	0.796	0.893	0.889	0.907	0.800	0.986	0.864	8.8
2-Chlorotoluene	1.538	1.759	1.728	1.717			1.650	7.1
1,3,5-Trimethylbenzene	1.387	1.677	1.671	1.616			1.546	9.7
1,2,4-Trimethylbenzene	1.510	1.966	1.958	1.994			1.781	14.7
1,3-Dichlorobenzene	0.882	1.063	1.022	1.036			0.977	9
1,4-Dichlorobenzene	0.888	1.040	1.017	1.030			0.972	8
1,2-Dichlorobenzene	0.850	1.014	1.031	1.012			0.951	9.8
1,2,4-Trichlorobenzene	0.859	1.028	0.941	0.821			0.899	9.5
Hexachloro-1,3-Butadiene	0.802	1.086	1.113	1.057			0.968	16.7
1,3-Butadiene	0.573	0.608	0.705	0.952			0.683	23.4
Naphthalene	1.806	2.314	2.181	1.979	1.637		1.948	13.3
4-Ethyltoluene	1.629	1.929	1.859	1.834			1.770	8.3
1-Bromo-4-Fluorobenzene	0.813	0.828	0.810	0.832	0.827	0.820	0.821	1
Hexane	1.333	1.383	1.462	1.507			1.402	5.7
Allyl Chloride	0.902	1.020	1.022	1.067			0.986	7.2
1,4-Dioxane	169.386	191.108	197.154	233.701			191.626	14.1

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG No.: Q1649

Instrument ID: MSVOA_L Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:26 11:36

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

LAB FILE ID: RRF010 = VL042172.D RRF002 = VL042173.D RRF001 = VL042174.D
RRF0.5 = VL042175.D RRF0.1 = VL042176.D RRF.03 = VL042177.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.403	0.408	0.451	0.442			0.420	6

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

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3)		Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4)		Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5)	T	Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6)	T	Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7)		Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8)	T	Dichlorotetraf...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9)	T	Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10)	T	Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11)	T	Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12)	T	1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13)		Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14)	T	Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15)	T	Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16)	T	1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17)		tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18)	T	1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19)	T	Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20)	T	Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21)	T	Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22)	T	trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23)	T	Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24)	T	1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25)	T	Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26)	T	Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27)	T	Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28)	T	Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29)	T	Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30)	T	Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31)	T	cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32)	T	1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35)	T	Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36)	T	Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37)	T	1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38)	T	Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39)	T	1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL032725AIR.M

40)	T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41)	T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42)	T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43)		Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44)	T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45)	T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46)	T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47)	T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48)	T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49)	T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50)	T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51)	T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52)	T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53)	T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54)	T	1,2-Dibromoethane		0.574	0.543	0.538	0.520	0.508	0.510	0.532	4.74
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57)	T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58)	T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59)	T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60)	T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61)	T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62)		Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63)	T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64)		n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65)		tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66)	T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67)		sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68)	S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69)		p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70)		n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71)		2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72)	T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73)	T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74)	T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75)	T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76)	T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77)	T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78)	T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79)	T	Naphthalene		1.637	1.979	2.181	2.314	1.806	1.773	1.948	13.31
80)	T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81)	T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

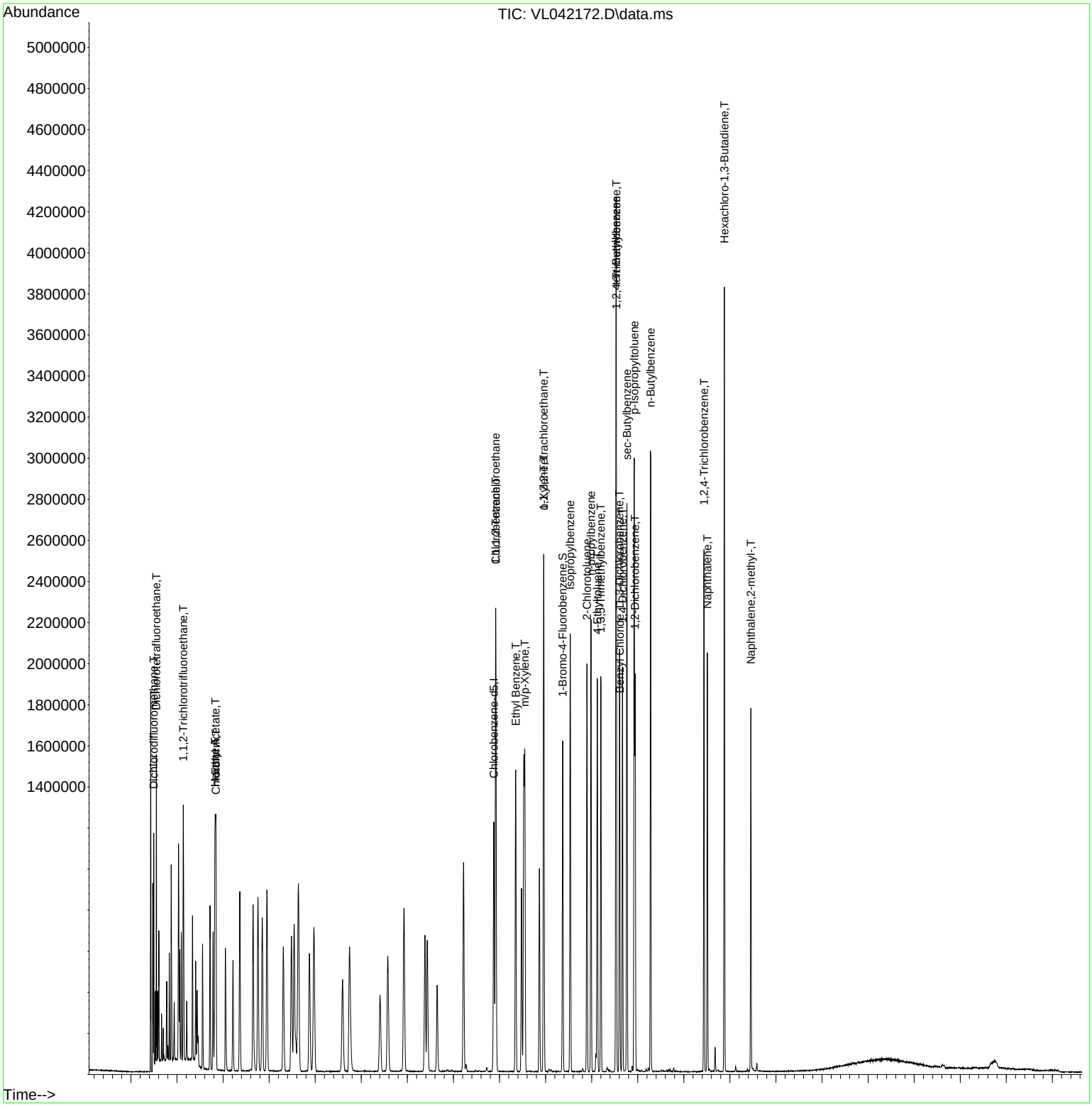
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv		100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv		100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv		100
49) Bromoform	9.477	173	317189	10.021	ppbv		100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv		100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv	#	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv		100
53) Toluene	6.927	91	613378	9.576	ppbv		100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv		100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv		100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv		100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv		
60) o-Xylene	9.960	91	689933	9.340	ppbv		100
61) Styrene	9.866	104	354697	9.706	ppbv		100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv		100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv		100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv		100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv		100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv		100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv		100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv		100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv		100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv		100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv		100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv		100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv		100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv		100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv		100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv		100
79) Naphthalene	13.510	128	938470	9.271	ppbv		100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv		100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv		100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	188395	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	417532	10.077	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv		99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv		99
4) Chloromethane	1.531	50	23293	2.049	ppbv		94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv		99
6) Bromomethane	1.664	94	10027	1.946	ppbv		98
7) Chloroethane	1.703	64	8413	1.844	ppbv		92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv		98
9) Propene	1.483	41	26295	2.054	ppbv		94
10) Heptane	4.972	43	71466	2.063	ppbv		99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv		98
13) Ethanol	1.719	45	2748m	2.741	ppbv		
14) Bromoethene	1.780	108	17323	2.033	ppbv	#	89
15) Acetone	1.832	43	55365	2.101	ppbv		95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv		95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv		100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv		95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv	#	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv		96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv		99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv		92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv	#	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv		99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv		99
26) Hexane	2.823	57	52095	1.972	ppbv		92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv	#	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv		99
29) Chloroform	2.845	83	78043	2.019	ppbv		95
30) Cyclohexane	3.852	84	45641	1.989	ppbv		99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv		96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv		99
34) 2-Butanone	2.554	43	84157	2.124	ppbv		99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv		96
36) Benzene	3.651	78	110727	2.044	ppbv		97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv		97
38) Trichloroethene	4.541	130	43501	1.924	ppbv		97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv		93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv		
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv		99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv		99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv		97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv		100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

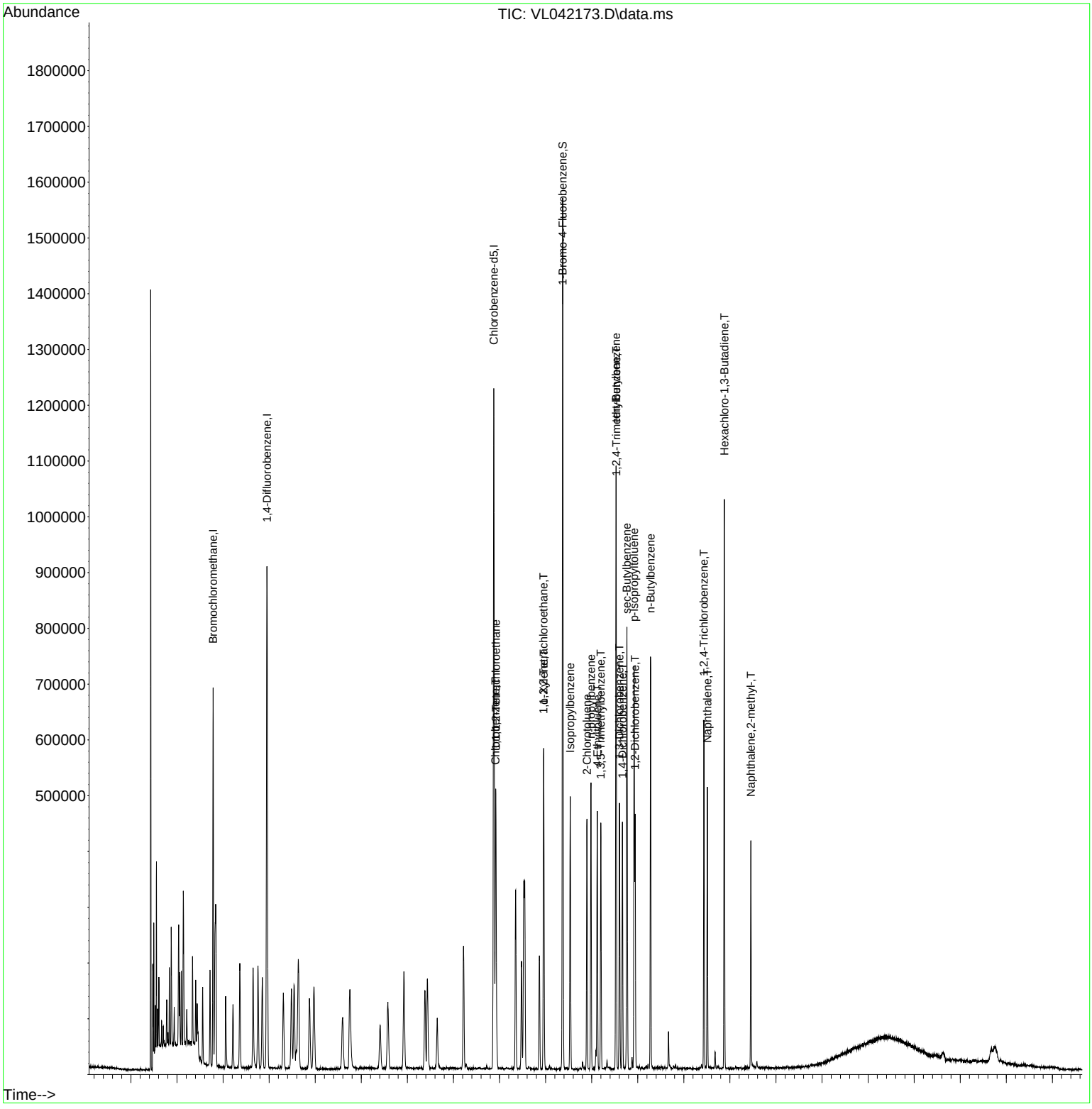
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.483	41	13699m	1.082	ppbv	
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	1610m	1.624	ppbv	
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv	
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv	
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv	
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

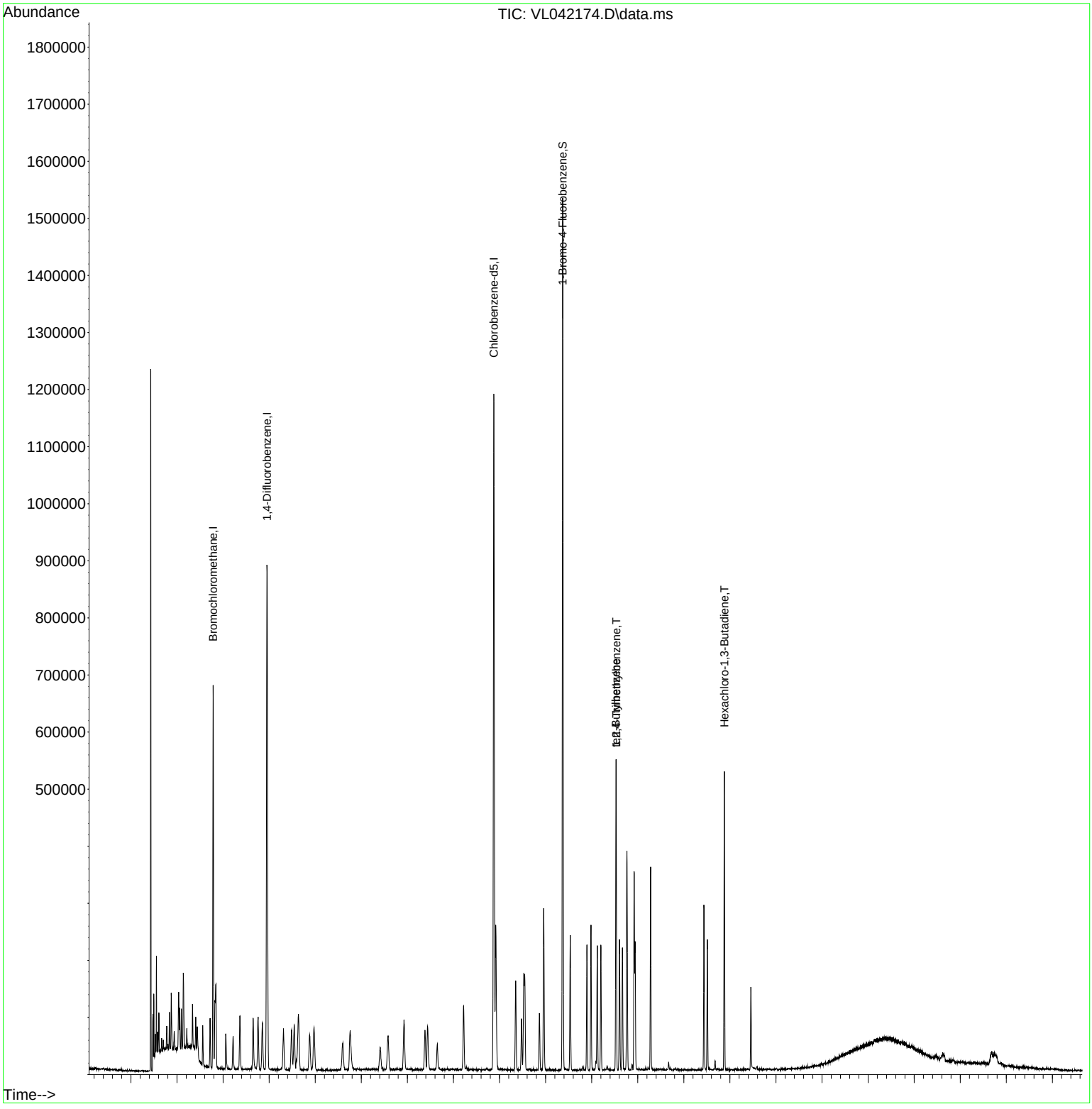
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv		93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv		96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv		100
49) Bromoform	9.481	173	31610	1.013	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv		
51) 2-Hexanone	7.438	43	54680	1.067	ppbv	#	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv		95
53) Toluene	6.927	91	64612	1.023	ppbv		99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv	#	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv		93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv		97
59) m/p-Xylene	9.529	91	147162m	2.073	ppbv		
60) o-Xylene	9.960	91	73702	1.037	ppbv		96
61) Styrene	9.866	104	36110	1.027	ppbv		97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv		99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv		98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv		96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv	#	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv		97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv		99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv		99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv		100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv		92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv		94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv		99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv		97
79) Naphthalene	13.510	128	109031	1.120	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv		98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	180502	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	403513	10.130	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv		95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv	#	89
4) Chloromethane	1.531	50	5956	0.547	ppbv		94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv		92
6) Bromomethane	1.664	94	2949	0.597	ppbv		95
7) Chloroethane	1.703	64	2582	0.591	ppbv	#	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv		98
9) Propene	1.483	41	6622m	0.540	ppbv		
10) Heptane	4.972	43	16673	0.502	ppbv		89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv		99
13) Ethanol	1.722	45	997	1.038	ppbv	#	36
14) Bromoethene	1.780	108	4770	0.584	ppbv	#	86
15) Acetone	1.835	43	15331	0.607	ppbv	#	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv		82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv		97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv	#	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv	#	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv	#	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv		89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv		83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv	#	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv		97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv		98
26) Hexane	2.823	57	13605	0.538	ppbv		92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv	#	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv	#	89
29) Chloroform	2.845	83	20149	0.544	ppbv		98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv		
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv		92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv		100
34) 2-Butanone	2.557	43	19739	0.520	ppbv		96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv		93
36) Benzene	3.651	78	27488	0.529	ppbv	#	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv		100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv		
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv		92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv		
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv		
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv	#	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv		
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv		95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv	#	79

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

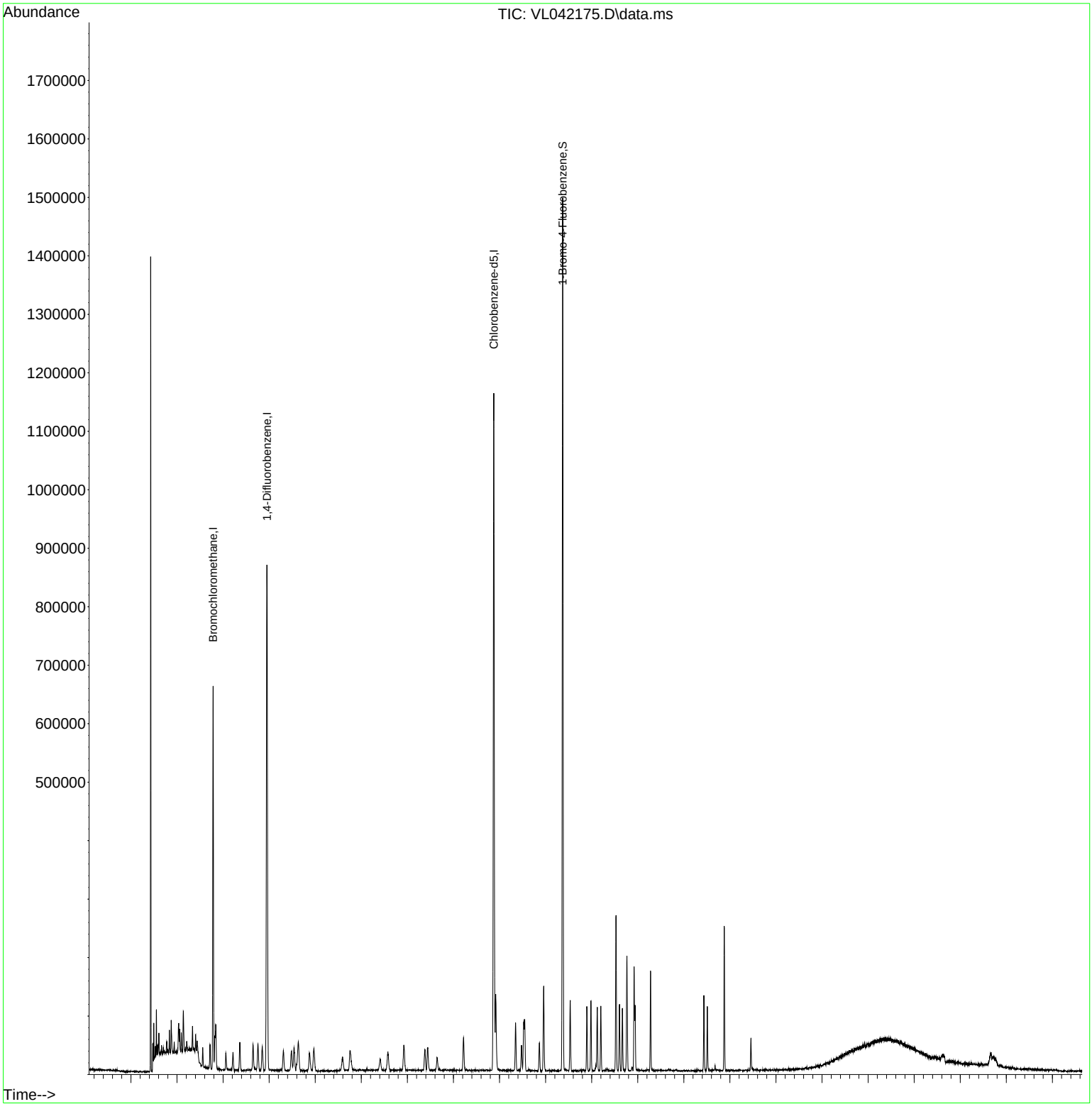
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv		
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv		
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv		99
49) Bromoform	9.480	173	14828	0.487	ppbv		98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv		97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv	#	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv		94
53) Toluene	6.923	91	32444	0.527	ppbv		98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv	#	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv	#	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv		96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv		
60) o-Xylene	9.959	91	36879	0.535	ppbv		98
61) Styrene	9.866	104	17198	0.504	ppbv		96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv		96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv		95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv		100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv		97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv		98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv		100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv		99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv		95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv	#	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv		97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv		100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv		97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv		96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv		99
79) Naphthalene	13.510	128	47990	0.508	ppbv		95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv		98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv		97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

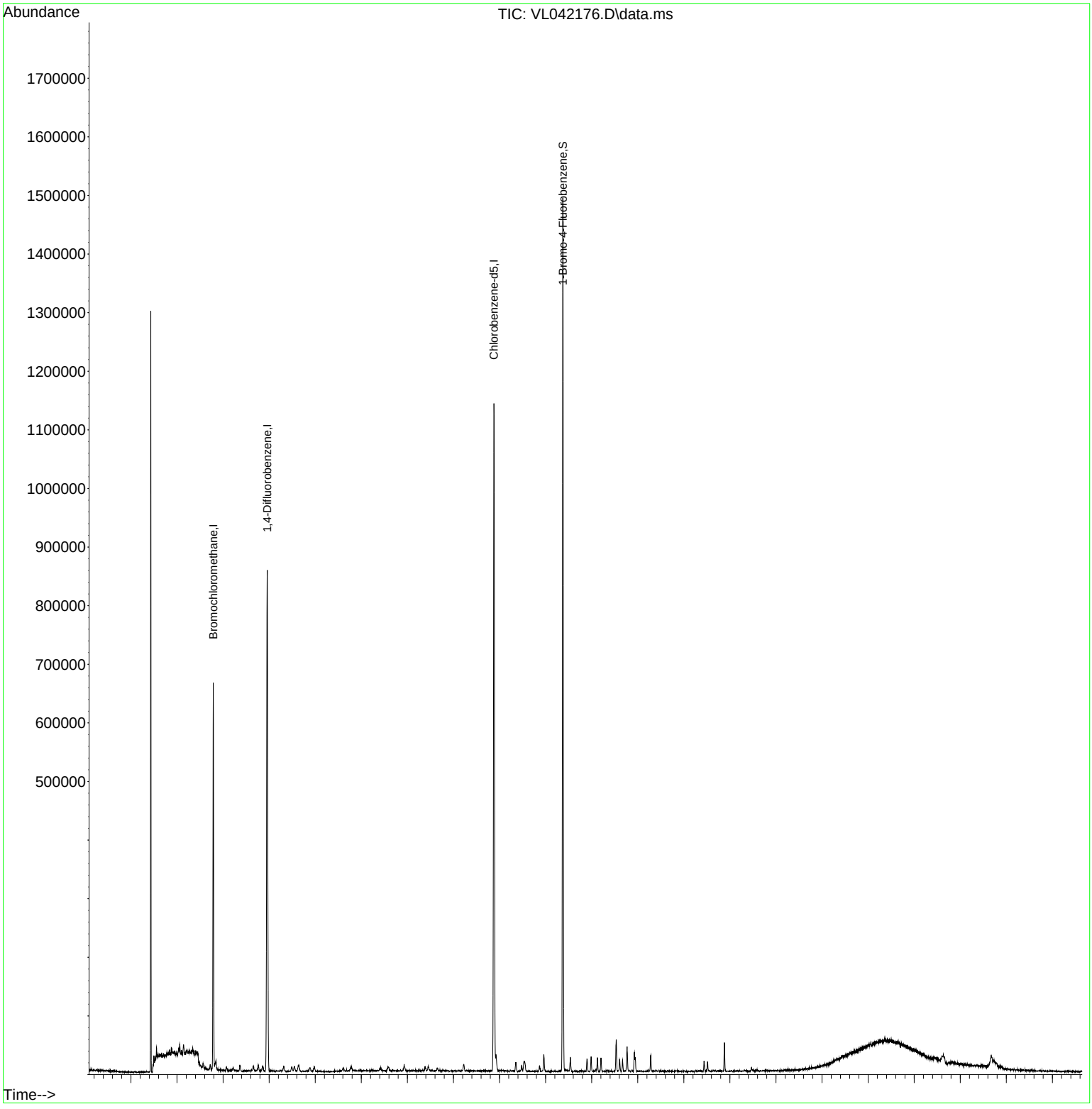
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv	# 42
32) 1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35) Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38) Trichloroethene	4.551	130	2306m	0.106	ppbv	
52) Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54) 1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79) Naphthalene	13.513	128	7882	0.084	ppbv	# 92

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

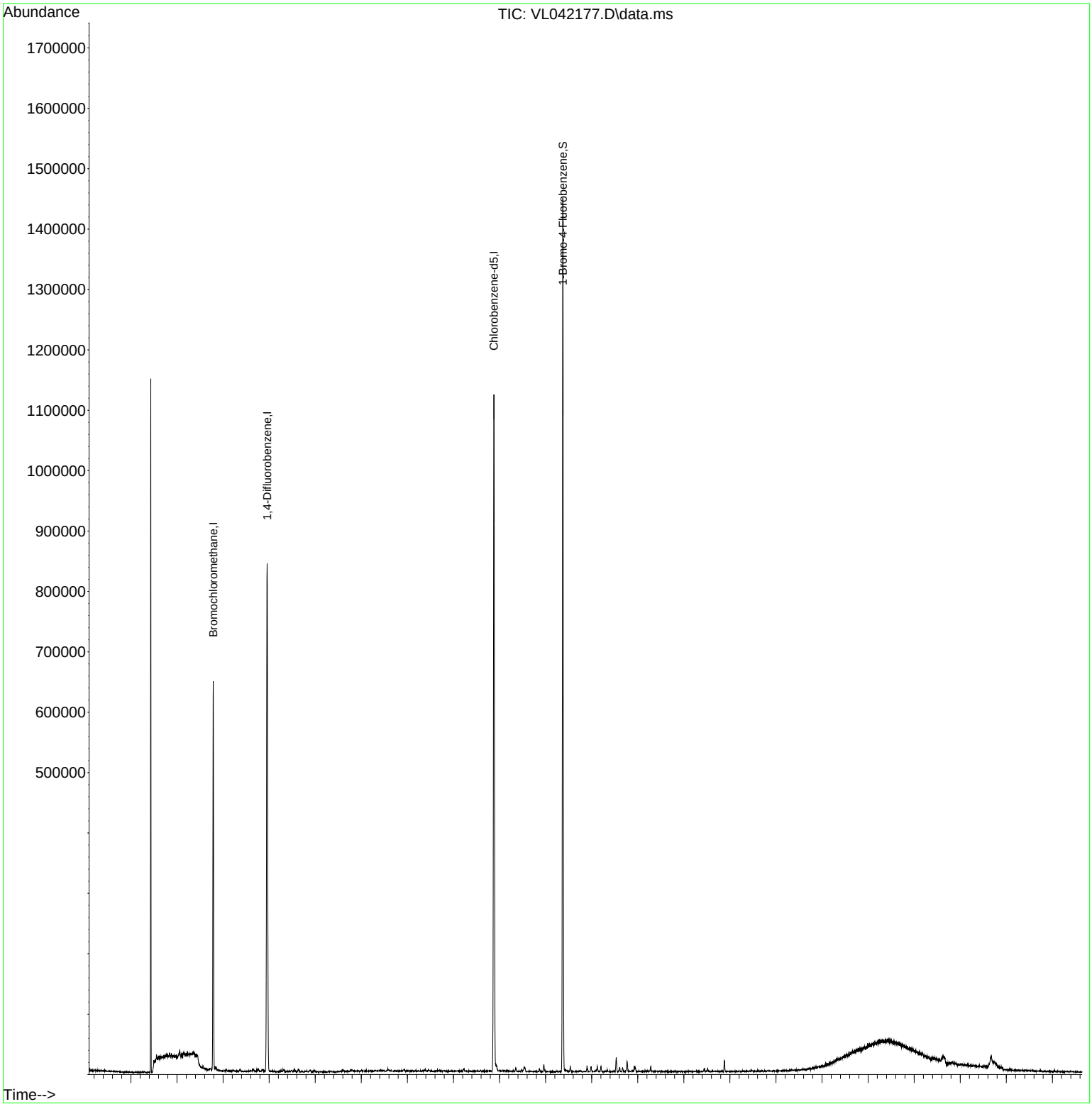
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

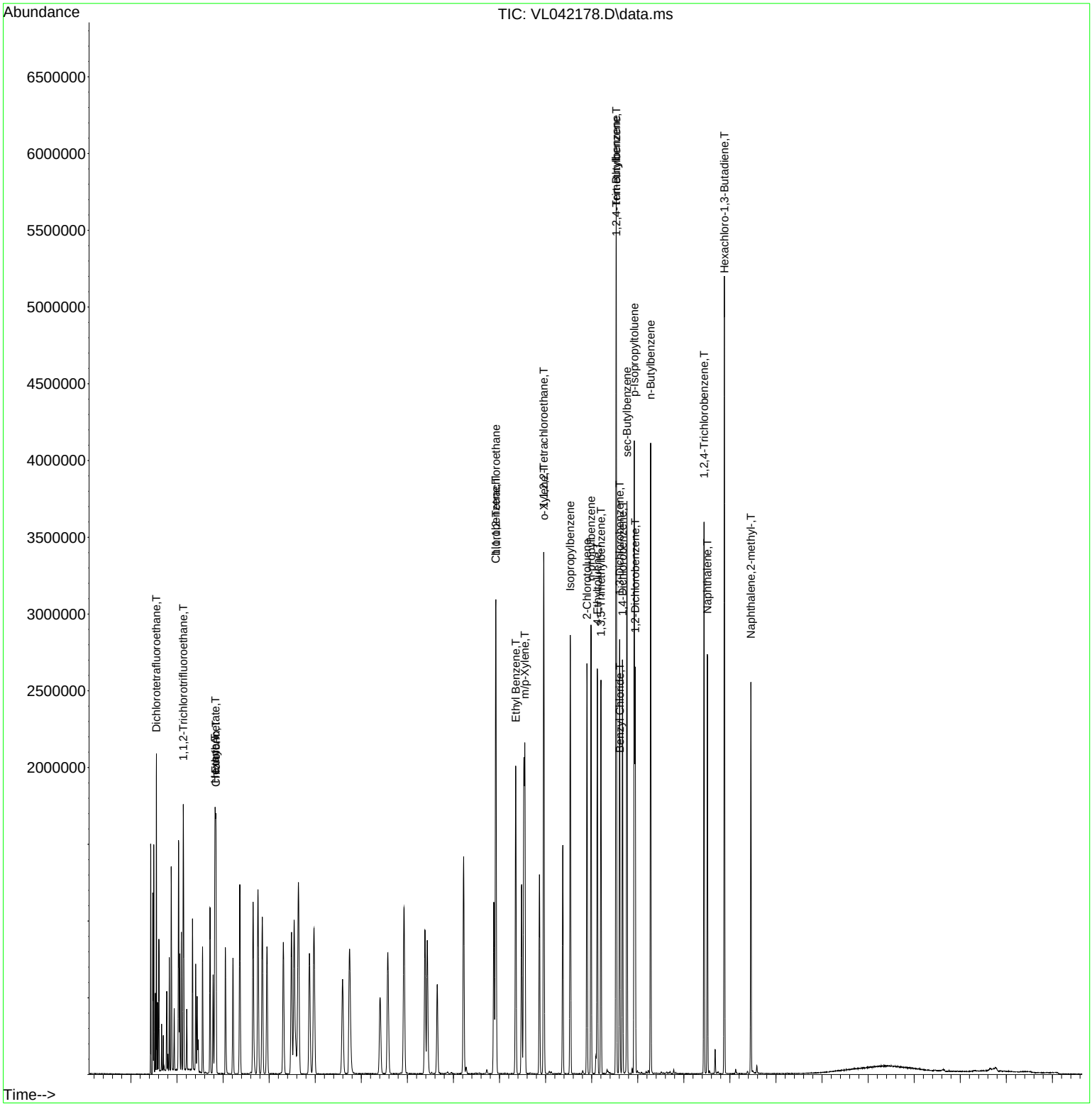
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv		98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv		98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv		100
49) Bromoform	9.480	173	427143	14.730	ppbv		99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv		99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv	#	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv		95
53) Toluene	6.926	91	829648	14.137	ppbv		100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv		99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv		100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv		97
59) m/p-Xylene	9.548	91	1857561m	27.651	ppbv		
60) o-Xylene	9.962	91	913234	13.577	ppbv		99
61) Styrene	9.865	104	474195	14.250	ppbv		99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv		99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv		94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv		98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv		100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv		99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv		98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv		99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv		99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv		99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv		92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv		100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv		100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv		99
79) Naphthalene	13.513	128	1258479	13.653	ppbv		98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv		99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	379929	9.774	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv	97
4) Chloromethane	1.531	50	98527	9.365	ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv	97
6) Bromomethane	1.667	94	41950	8.799	ppbv	97
7) Chloroethane	1.703	64	37400	8.856	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv	95
9) Propene	1.483	41	105338	8.739	ppbv	99
10) Heptane	4.972	43	298768	9.318	ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv	98
13) Ethanol	1.719	45	5773	5.066	ppbv	97
14) Bromoethene	1.780	108	73572	9.328	ppbv	97
15) Acetone	1.832	43	198300	8.132	ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv	99
26) Hexane	2.823	57	231125	9.455	ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv	95
29) Chloroform	2.845	83	344106	9.619	ppbv	100
30) Cyclohexane	3.852	84	197897	9.323	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv	99
34) 2-Butanone	2.554	43	331236	9.171	ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv	98
36) Benzene	3.651	78	461261	9.341	ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv	99
38) Trichloroethene	4.541	130	191746	9.306	ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

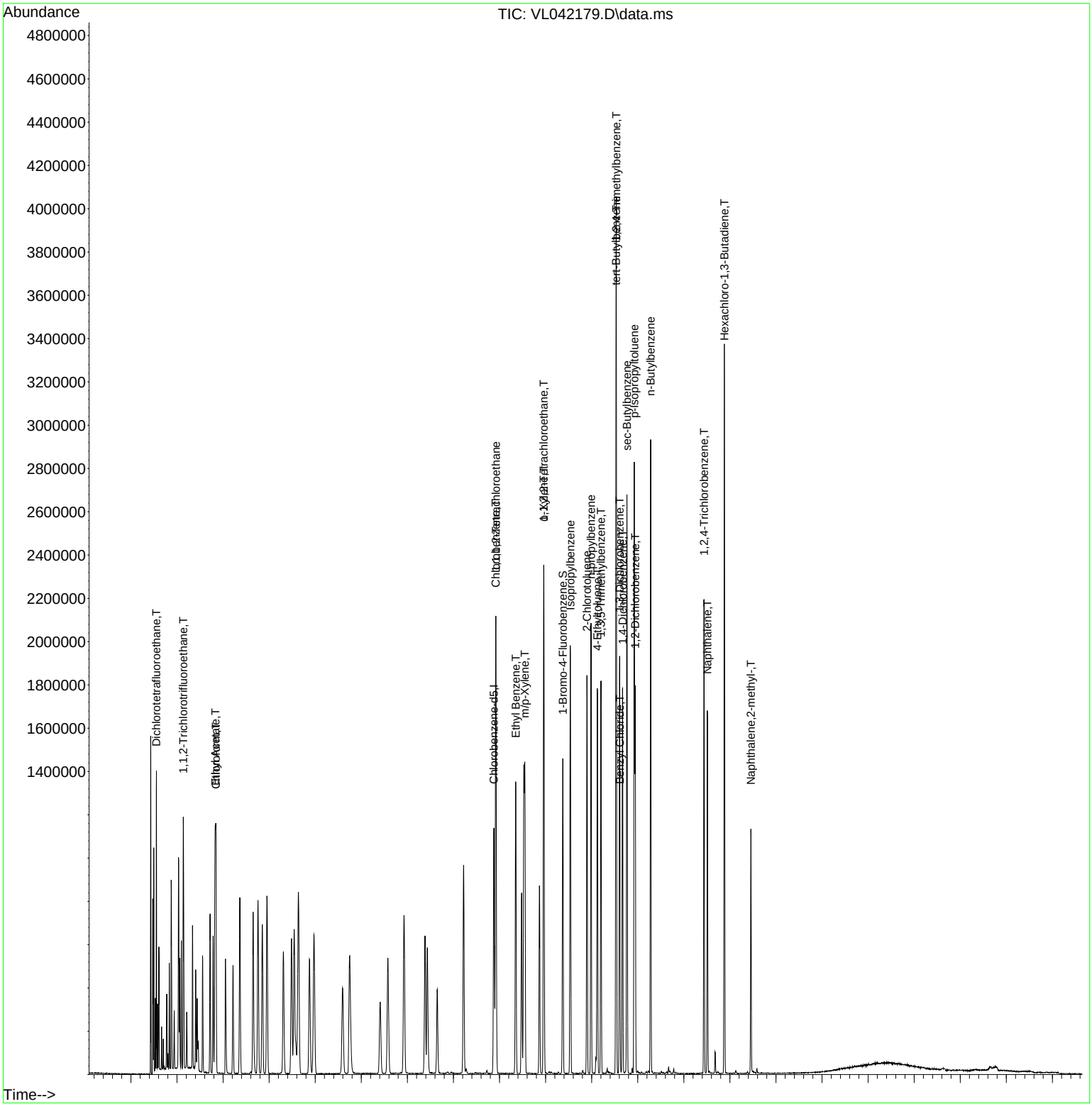
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv		98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv		98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv		100
49) Bromoform	9.480	173	285149	9.858	ppbv		99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv		99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv	#	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv		93
53) Toluene	6.927	91	556897	9.514	ppbv		99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv		99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv		98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv		98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv		
60) o-Xylene	9.959	91	632918	9.404	ppbv		99
61) Styrene	9.866	104	315910	9.488	ppbv		99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv		99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv		98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv		98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv		97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv		100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv		100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv		100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv		100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv		94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv		99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv		100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv		100
79) Naphthalene	13.513	128	773311	8.385	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv		99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv		98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	93	0.00
2	T	Dichlorodifluoromethane	1.476	1.409	4.5	94	0.00
3		Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4		Chloromethane	0.603	0.565	6.3	92	0.00
5	T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6	T	Bromomethane	0.273	0.241	11.7	87	0.00
7		Chloroethane	0.242	0.215	11.2	88	0.00
8	T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9	T	Propene	0.691	0.604	12.6	85	0.00
10	T	Heptane	1.839	1.714	6.8	89	0.00
11	T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13		Ethanol	0.065	0.033#	49.2#	108	0.00
14	T	Bromoethene	0.452	0.422	6.6	94	0.00
15	T	Acetone	1.399	1.137	18.7	95	0.00
16	T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17		tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18	T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19	T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20	T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21	T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22	T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23	T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24	T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25	T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26	T	Hexane	1.402	1.326	5.4	93	0.00
27	T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28	T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29	T	Chloroform	2.052	1.974	3.8	95	0.00
30	T	Cyclohexane	1.217	1.135	6.7	91	0.00
31	T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32	T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34	T	2-Butanone	0.725	0.665	8.3	91	0.00
35	T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36	T	Benzene	0.991	0.926	6.6	91	0.00
37	T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38	T	Trichloroethene	0.414	0.385	7.0	94	0.00
39	T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40	T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41	T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42	T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43		Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44	T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45	T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46	T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47	T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48	T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50	T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51	T	2-Hexanone	0.944	0.825	12.6	89	0.00
52	T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53	T	Toluene	1.175	1.118	4.9	91	0.00
54	T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56		1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57	T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58	T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59	T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60	T	o-Xylene	1.422	1.337	6.0	92	0.00
61	T	Styrene	0.703	0.667	5.1	89	0.00
62		Isopropylbenzene	2.126	1.996	6.1	93	0.00
63	T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64		n-propylbenzene	0.547	0.517	5.5	94	0.00
65		tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66	T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67		sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68	S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69		p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70		n-Butylbenzene	2.407	2.194	8.8	94	0.00
71		2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72	T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73	T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74	T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75	T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76	T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77	T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78	T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79	T	Naphthalene	1.948	1.634	16.1	82	0.00
80	T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81	T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

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

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	93	0.00
2	T	Dichlorodifluoromethane	10.000	9.545	4.6	94	0.00
3		Chlorodifluoromethane	10.000	9.394	6.1	91	0.00
4		Chloromethane	10.000	9.365	6.3	92	0.00
5	T	Vinyl Chloride	10.000	8.573	14.3	93	0.00
6	T	Bromomethane	10.000	8.799	12.0	87	0.00
7		Chloroethane	10.000	8.856	11.4	88	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.753	2.5	94	0.00
9	T	Propene	10.000	8.739	12.6	85	0.00
10	T	Heptane	10.000	9.318	6.8	89	0.00
11	T	Trichlorofluoromethane	10.000	9.453	5.5	95	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.421	5.8	93	0.00
13		Ethanol	10.000	5.066	49.3#	108	0.00
14	T	Bromoethene	10.000	9.328	6.7	94	0.00
15	T	Acetone	10.000	8.132	18.7	95	0.00
16	T	1,3-Butadiene	10.000	8.216	17.8	91	0.00
17		tert-Butyl alcohol	10.000	9.094	9.1	91	0.00
18	T	1,1-Dichloroethene	10.000	9.053	9.5	92	0.00
19	T	Isopropyl Alcohol	10.000	8.923	10.8	93	0.00
20	T	Methylene Chloride	10.000	8.018	19.8	89	0.00
21	T	Allyl Chloride	10.000	9.154	8.5	93	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.092	9.1	92	0.00
23	T	Vinyl Acetate	10.000	8.553	14.5	97	0.00
24	T	1,1-Dichloroethane	10.000	9.600	4.0	94	0.00
25	T	Ethyl Acetate	10.000	9.364	6.4	92	0.00
26	T	Hexane	10.000	9.455	5.4	93	0.00
27	T	Carbon Disulfide	10.000	9.493	5.1	93	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.624	3.8	94	0.00
29	T	Chloroform	10.000	9.619	3.8	95	0.00
30	T	Cyclohexane	10.000	9.323	6.8	91	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.449	5.5	91	0.00
32	T	1,1,1-Trichloroethane	10.000	8.921	10.8	95	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34	T	2-Butanone	10.000	9.171	8.3	91	0.00
35	T	Carbon Tetrachloride	10.000	9.339	6.6	95	0.00
36	T	Benzene	10.000	9.341	6.6	91	0.00
37	T	1,2-Dichloroethane	10.000	9.676	3.2	93	0.00
38	T	Trichloroethene	10.000	9.306	6.9	94	0.00
39	T	1,2-Dichloropropane	10.000	9.500	5.0	93	0.00
40	T	1,4-Dioxane	10.000	8.443	15.6	87	0.00
41	T	Tetrahydrofuran	10.000	9.431	5.7	90	0.00
42	T	Bromodichloromethane	10.000	9.853	1.5	92	0.00
43		Methyl Methacrylate	10.000	9.344	6.6	89	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.436	5.6	90	0.00
45	T	t-1,3-Dichloropropene	10.000	9.467	5.3	89	0.00
46	T	cis-1,3-Dichloropropene	10.000	9.643	3.6	88	0.00
47	T	1,1,2-Trichloroethane	10.000	9.638	3.6	92	0.00
48	T	Dibromochloromethane	10.000	10.018	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	9.858	1.4	90	0.00
50	T	4-Methyl-2-Pentanone	10.000	8.749	12.5	89	0.00
51	T	2-Hexanone	10.000	8.741	12.6	89	0.00
52	T	Tetrachloroethene	10.000	8.855	11.4	93	0.00
53	T	Toluene	10.000	9.514	4.9	91	0.00
54	T	1,2-Dibromoethane	10.000	9.695	3.0	93	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	91	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.567	4.3	94	0.00
57	T	Chlorobenzene	10.000	9.411	5.9	93	0.00
58	T	Ethyl Benzene	10.000	9.412	5.9	91	0.00
59	T	m/p-Xylene	20.000	18.772	6.1	92	0.00
60	T	o-Xylene	10.000	9.404	6.0	92	0.00
61	T	Styrene	10.000	9.488	5.1	89	0.00
62		Isopropylbenzene	10.000	9.388	6.1	93	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.357	6.4	93	0.00
64		n-propylbenzene	10.000	9.439	5.6	94	0.00
65		tert-Butylbenzene	10.000	9.065	9.4	94	0.00
66	T	Benzyl Chloride	10.000	8.789	12.1	82	0.00
67		sec-Butylbenzene	10.000	9.063	9.4	94	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	9.774	2.3	90	0.00
69		p-Isopropyltoluene	10.000	9.153	8.5	94	0.00
70		n-Butylbenzene	10.000	9.115	8.8	94	0.00
71		2-Chlorotoluene	10.000	9.382	6.2	92	0.00
72	T	4-Ethyltoluene	10.000	9.370	6.3	93	0.00
73	T	1,3,5-Trimethylbenzene	10.000	9.203	8.0	93	0.00
74	T	1,2,4-Trimethylbenzene	10.000	8.648	13.5	93	0.00
75	T	1,3-Dichlorobenzene	10.000	9.224	7.8	93	0.00
76	T	1,4-Dichlorobenzene	10.000	9.263	7.4	92	0.00
77	T	1,2-Dichlorobenzene	10.000	9.154	8.5	93	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	7.776	22.2	86	0.00
79	T	Naphthalene	10.000	8.385	16.2	82	0.00
80	T	Naphthalene,2-methyl-	10.000	7.151	28.5	63	0.00
81	T	1,2,4-Trichlorobenzene	10.000	8.553	14.5	82	0.00

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG No.: Q1649

Instrument ID: MSVOA_L Calibration Date/Time: 03/31/2025 08:51

Lab File ID: VL042201.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.476	1.509		2.24	30
Chloromethane	0.603	0.570		-5.47	30
Vinyl Chloride	0.639	0.550		-13.93	30
Bromomethane	0.273	0.252		-7.69	30
Chloroethane	0.242	0.221		-8.68	30
Tetrahydrofuran	0.418	0.371		-11.24	30
Trichlorofluoromethane	1.437	1.435		-0.14	30
1,1,2-Trichlorotrifluoroethane	1.181	1.132		-4.15	30
Dichlorotetrafluoroethane	1.257	1.261		0.32	30
tert-Butyl alcohol	1.742	1.563		-10.28	30
Heptane	1.839	1.622		-11.8	30
1,1-Dichloroethene	0.552	0.513		-7.07	30
Acetone	1.399	1.200		-14.22	30
Carbon Disulfide	1.503	1.425		-5.19	30
Methyl tert-Butyl Ether	0.873	1.103		26.35	30
Methylene Chloride	0.521	0.420		-19.39	30
trans-1,2-Dichloroethene	0.638	0.569		-10.81	30
1,1-Dichloroethane	1.183	1.151		-2.7	30
Cyclohexane	1.217	1.115		-8.38	30
2-Butanone	0.725	0.655		-9.65	30
Carbon Tetrachloride	0.781	0.807		3.33	30
cis-1,2-Dichloroethene	1.423	1.359		-4.5	30
Chloroform	2.052	2.093		2	30
1,1,1-Trichloroethane	2.349	2.228		-5.15	30
2,2,4-Trimethylpentane	1.675	1.532		-8.54	30
Benzene	0.991	0.927		-6.46	30
1,2-Dichloroethane	0.568	0.593		4.4	30
Trichloroethene	0.414	0.391		-5.56	30
1,2-Dichloropropane	0.361	0.333		-7.76	30
Bromodichloromethane	0.782	0.811		3.71	30
4-Methyl-2-Pentanone	1.149	0.949		-17.41	30
Toluene	1.175	1.070		-8.94	30
t-1,3-Dichloropropene	0.450	0.413		-8.22	30
cis-1,3-Dichloropropene	0.552	0.505		-8.51	30
1,1,2-Trichloroethane	0.382	0.366		-4.19	30
Dibromochloromethane	0.647	0.659		1.86	30
1,2-Dibromoethane	0.532	0.520		-2.26	30
Tetrachloroethene	0.393	0.337		-14.25	30

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1649 SAS No.: Q1649 SDG No.: Q1649

Instrument ID: MSVOA_L Calibration Date/Time: 03/31/2025 08:51

Lab File ID: VL042201.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.949	0.917		-3.37	30
Ethyl Benzene	1.776	1.678		-5.52	30
m/p-Xylene	1.418	1.371		-3.32	30
o-Xylene	1.422	1.355		-4.71	30
Styrene	0.703	0.663		-5.69	30
Bromoform	0.581	0.568		-2.24	30
1,1,2,2-Tetrachloroethane	0.864	0.822		-4.86	30
2-Chlorotoluene	1.650	1.593		-3.45	30
1,3,5-Trimethylbenzene	1.546	1.501		-2.91	30
1,2,4-Trimethylbenzene	1.781	1.639		-7.97	30
1,3-Dichlorobenzene	0.977	0.967		-1.02	30
1,4-Dichlorobenzene	0.972	0.974		0.21	30
1,2-Dichlorobenzene	0.951	0.940		-1.16	30
1,2,4-Trichlorobenzene	0.899	0.879		-2.22	30
Hexachloro-1,3-Butadiene	0.968	0.813		-16.01	30
1,3-Butadiene	0.683	0.595		-12.88	30
Naphthalene	1.948	1.962		0.72	30
4-Ethyltoluene	1.770	1.731		-2.2	30
1-Bromo-4-Fluorobenzene	0.821	0.837		1.95	30
Hexane	1.402	1.295		-7.63	30
Allyl Chloride	0.986	0.895		-9.23	30
1,4-Dioxane	191.626	167.508		-12.59	30
Methyl Methacrylate	0.420	0.370		-11.9	30

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042201.D
Acq On : 31 Mar 2025 08:51
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Apr 01 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	161478	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.982	114	460403	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	424671	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	355372	10.190	ppbv	0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.506	85	243672	10.220	ppbv	98
3) Chlorodifluoromethane	1.483	51	233931	9.604	ppbv	96
4) Chloromethane	1.538	50	91967	9.439	ppbv	99
5) Vinyl Chloride	1.586	62	88747	8.595	ppbv	96
6) Bromomethane	1.674	94	40765	9.232	ppbv	98
7) Chloroethane	1.713	64	35638	9.112	ppbv	98
8) Dichlorotetrafluoroethane	1.561	85	203570	10.026	ppbv	96
9) Propene	1.489	41	95128	8.521	ppbv	97
10) Heptane	5.011	43	261936	8.821	ppbv	99
11) Trichlorofluoromethane	1.887	101	231721	9.988	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.150	101	182824	9.588	ppbv	98
13) Ethanol	1.729	45	4473	4.238	ppbv	87
14) Bromoethene	1.790	108	66903	9.159	ppbv	99
15) Acetone	1.842	43	193773	8.580	ppbv	96
16) 1,3-Butadiene	1.616	39	96046	8.709	ppbv	97
17) tert-Butyl alcohol	2.049	59	252420	8.974	ppbv	99
18) 1,1-Dichloroethene	2.043	96	82868	9.296	ppbv	100
19) Isopropyl Alcohol	1.894	45	115180	9.039	ppbv	98
20) Methylene Chloride	2.072	84	67877	8.070	ppbv	94
21) Allyl Chloride	2.108	41	144599	9.079	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	91942	8.924	ppbv	96
23) Vinyl Acetate	2.473	43	82938	8.485	ppbv #	96
24) 1,1-Dichloroethane	2.421	63	185830	9.730	ppbv	99
25) Ethyl Acetate	2.852	43	536366	9.151	ppbv	99
26) Hexane	2.842	57	209103	9.236	ppbv	98
27) Carbon Disulfide	2.159	76	230171	9.481	ppbv	98
28) Methyl tert-Butyl Ether	2.454	73	178093	12.635	ppbv	92
29) Chloroform	2.865	83	337970	10.200	ppbv	99
30) Cyclohexane	3.878	84	180110	9.162	ppbv	95
31) cis-1,2-Dichloroethene	2.735	61	219389	9.545	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	359718	9.483	ppbv	98
34) 2-Butanone	2.570	43	301334	9.026	ppbv	99
35) Carbon Tetrachloride	3.784	117	371691	10.335	ppbv	98
36) Benzene	3.677	78	426758	9.350	ppbv	98
37) 1,2-Dichloroethane	3.234	62	273137	10.453	ppbv	99
38) Trichloroethene	4.574	130	179999	9.452	ppbv	96
39) 1,2-Dichloropropane	4.338	63	153124	9.212	ppbv	94
40) 1,4-Dioxane	4.613	88	77121m	8.741	ppbv	
41) Tetrahydrofuran	3.069	42	170829	8.886	ppbv	100
42) Bromodichloromethane	4.516	83	373399	10.365	ppbv	99
43) Methyl Methacrylate	4.907	69	170312	8.814	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	705253	9.143	ppbv	98
45) t-1,3-Dichloropropene	6.445	75	190040	9.167	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042201.D
Acq On : 31 Mar 2025 08:51
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Apr 01 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	232713	9.158	ppbv		96
47) 1,1,2-Trichloroethane	6.616	97	168373m	9.582	ppbv		
48) Dibromochloromethane	7.416	129	303330	10.186	ppbv		100
49) Bromoform	9.503	173	261484	9.780	ppbv		99
50) 4-Methyl-2-Pentanone	5.791	43	437050	8.261	ppbv		97
51) 2-Hexanone	7.464	43	351622	8.093	ppbv	#	96
52) Tetrachloroethene	8.247	164	155203	8.574	ppbv		96
53) Toluene	6.962	91	492717	9.106	ppbv		100
54) 1,2-Dibromoethane	7.675	107	239347	9.771	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.947	131	236930	10.136	ppbv		98
57) Chlorobenzene	8.943	112	389475	9.669	ppbv		97
58) Ethyl Benzene	9.374	91	712533	9.446	ppbv		98
59) m/p-Xylene	9.571	91	1164678m	19.336	ppbv		
60) o-Xylene	9.986	91	575224	9.526	ppbv		97
61) Styrene	9.892	104	281518	9.424	ppbv		100
62) Isopropylbenzene	10.558	105	874894	9.689	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.982	83	349199	9.518	ppbv		100
64) n-propylbenzene	11.008	120	228400	9.826	ppbv		97
65) tert-Butylbenzene	11.549	119	795482	9.526	ppbv		98
66) Benzyl Chloride	11.633	91	72526	8.185	ppbv		99
67) sec-Butylbenzene	11.785	105	1123267	9.677	ppbv		99
69) p-Isopropyltoluene	11.940	119	967912	9.684	ppbv		99
70) n-Butylbenzene	12.296	91	1006907	9.850	ppbv		98
71) 2-Chlorotoluene	10.918	91	676396	9.652	ppbv		98
72) 4-Ethyltoluene	11.141	105	734909	9.775	ppbv		100
73) 1,3,5-Trimethylbenzene	11.222	105	637499	9.709	ppbv		97
74) 1,2,4-Trimethylbenzene	11.555	105	696079	9.202	ppbv		99
75) 1,3-Dichlorobenzene	11.623	146	410546	9.895	ppbv		99
76) 1,4-Dichlorobenzene	11.688	146	413478	10.014	ppbv		100
77) 1,2-Dichlorobenzene	11.963	146	399386	9.887	ppbv		99
78) Hexachloro-1,3-Butadiene	13.895	225	345217	8.395	ppbv		99
79) Naphthalene	13.530	128	833346	10.072	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	427563	10.537	ppbv		98
81) 1,2,4-Trichlorobenzene	13.455	180	373226	9.779	ppbv		99

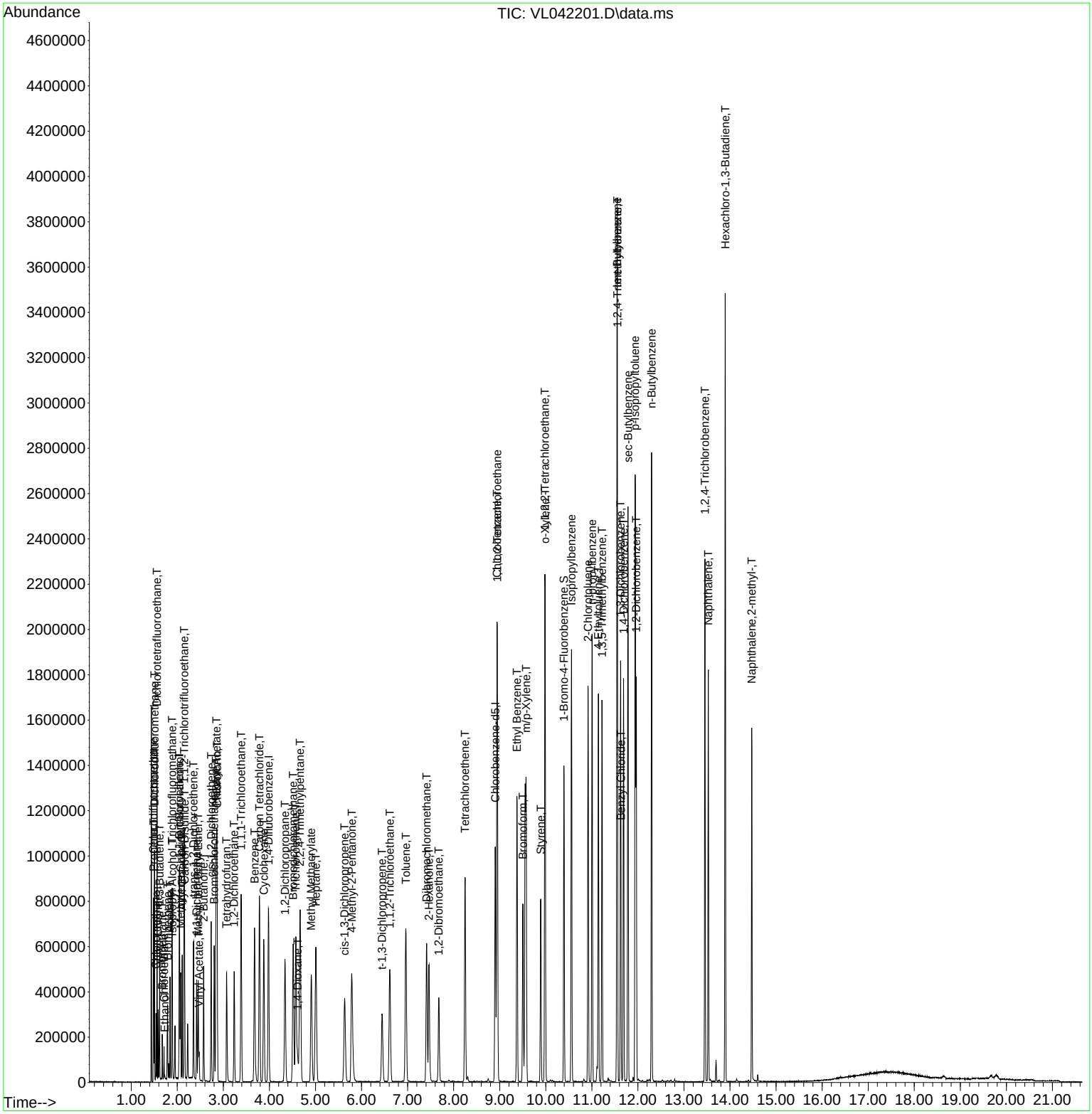
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042201.D
Acq On : 31 Mar 2025 08:51
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Apr 01 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042201.D
Acq On : 31 Mar 2025 08:51
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 01 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	86	0.02
2	T	Dichlorodifluoromethane	1.476	1.509	-2.2	93	0.00
3		Chlorodifluoromethane	1.508	1.449	3.9	86	0.00
4		Chloromethane	0.603	0.570	5.5	86	0.00
5	T	Vinyl Chloride	0.639	0.550	13.9	86	0.00
6	T	Bromomethane	0.273	0.252	7.7	85	0.00
7		Chloroethane	0.242	0.221	8.7	84	0.00
8	T	Dichlorotetrafluoroethane	1.257	1.261	-0.3	90	0.00
9	T	Propene	0.691	0.589	14.8	77	0.00
10	T	Heptane	1.839	1.622	11.8	78	0.04
11	T	Trichlorofluoromethane	1.437	1.435	0.1	93	0.01
12	T	1,1,2-Trichlorotrifluoroeth	1.181	1.132	4.1	87	0.01
13		Ethanol	0.065	0.028#	56.9#	84	0.00
14	T	Bromoethene	0.452	0.414	8.4	86	0.01
15	T	Acetone	1.399	1.200	14.2	93	0.00
16	T	1,3-Butadiene	0.683	0.595	12.9	90	0.00
17		tert-Butyl alcohol	1.742	1.563	10.3	83	0.01
18	T	1,1-Dichloroethene	0.552	0.513	7.1	88	0.01
19	T	Isopropyl Alcohol	0.789	0.713	9.6	88	0.00
20	T	Methylene Chloride	0.521	0.420	19.4	83	0.01
21	T	Allyl Chloride	0.986	0.895	9.2	86	0.02
22	T	trans-1,2-Dichloroethene	0.638	0.569	10.8	83	0.02
23	T	Vinyl Acetate	0.605	0.514	15.0	89	0.01
24	T	1,1-Dichloroethane	1.183	1.151	2.7	89	0.02
25	T	Ethyl Acetate	3.630	3.322	8.5	83	0.02
26	T	Hexane	1.402	1.295	7.6	84	0.02
27	T	Carbon Disulfide	1.503	1.425	5.2	86	0.01
28	T	Methyl tert-Butyl Ether	0.873	1.103	-26.3	115	0.02
29	T	Chloroform	2.052	2.093	-2.0	94	0.02
30	T	Cyclohexane	1.217	1.115	8.4	83	0.03
31	T	cis-1,2-Dichloroethene	1.423	1.359	4.5	86	0.02
32	T	1,1,1-Trichloroethane	2.349	2.228	5.2	93	0.02
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.03
34	T	2-Butanone	0.725	0.655	9.7	83	0.02
35	T	Carbon Tetrachloride	0.781	0.807	-3.3	97	0.03
36	T	Benzene	0.991	0.927	6.5	84	0.03
37	T	1,2-Dichloroethane	0.568	0.593	-4.4	93	0.02
38	T	Trichloroethene	0.414	0.391	5.6	88	0.03
39	T	1,2-Dichloropropane	0.361	0.333	7.8	83	0.03
40	T	1,4-Dioxane	0.192	0.168	12.5	84	0.04
41	T	Tetrahydrofuran	0.418	0.371	11.2	79	0.02
42	T	Bromodichloromethane	0.782	0.811	-3.7	89	0.03
43		Methyl Methacrylate	0.420	0.370	11.9	78	0.04
44	T	2,2,4-Trimethylpentane	1.675	1.532	8.5	80	0.03
45	T	t-1,3-Dichloropropene	0.450	0.413	8.2	79	0.04
46	T	cis-1,3-Dichloropropene	0.552	0.505	8.5	78	0.04
47	T	1,1,2-Trichloroethane	0.382	0.366	4.2	85	0.04
48	T	Dibromochloromethane	0.647	0.659	-1.9	88	0.04

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042201.D
Acq On : 31 Mar 2025 08:51
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 01 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	0.581	0.568	2.2	82	0.03
50	T	4-Methyl-2-Pentanone	1.149	0.949	17.4	78	0.05
51	T	2-Hexanone	0.944	0.764	19.1	76	0.03
52	T	Tetrachloroethene	0.393	0.337	14.2	83	0.03
53	T	Toluene	1.175	1.070	8.9	80	0.04
54	T	1,2-Dibromoethane	0.532	0.520	2.3	86	0.03
55	I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.03
56		1,1,1,2-Tetrachloroethane	0.550	0.558	-1.5	89	0.03
57	T	Chlorobenzene	0.949	0.917	3.4	86	0.03
58	T	Ethyl Benzene	1.776	1.678	5.5	82	0.02
59	T	m/p-Xylene	1.418	1.371	3.3	85	0.02
60	T	o-Xylene	1.422	1.355	4.7	83	0.03
61	T	Styrene	0.703	0.663	5.7	79	0.03
62		Isopropylbenzene	2.126	2.060	3.1	86	0.02
63	T	1,1,2,2-Tetrachloroethane	0.864	0.822	4.9	84	0.02
64		n-propylbenzene	0.547	0.538	1.6	88	0.02
65		tert-Butylbenzene	1.966	1.873	4.7	88	0.02
66	T	Benzyl Chloride	0.209	0.171	18.2	69	0.02
67		sec-Butylbenzene	2.733	2.645	3.2	90	0.02
68	S	1-Bromo-4-Fluorobenzene	0.821	0.837	-1.9	84	0.02
69		p-Isopropyltoluene	2.354	2.279	3.2	90	0.02
70		n-Butylbenzene	2.407	2.371	1.5	91	0.02
71		2-Chlorotoluene	1.650	1.593	3.5	85	0.02
72	T	4-Ethyltoluene	1.770	1.731	2.2	87	0.02
73	T	1,3,5-Trimethylbenzene	1.546	1.501	2.9	88	0.02
74	T	1,2,4-Trimethylbenzene	1.781	1.639	8.0	89	0.02
75	T	1,3-Dichlorobenzene	0.977	0.967	1.0	90	0.02
76	T	1,4-Dichlorobenzene	0.972	0.974	-0.2	90	0.02
77	T	1,2-Dichlorobenzene	0.951	0.940	1.2	90	0.02
78	T	Hexachloro-1,3-Butadiene	0.968	0.813	16.0	83	0.02
79	T	Naphthalene	1.948	1.962	-0.7	89	0.02
80	T	Naphthalene,2-methyl-	0.955	1.007	-5.4	83	0.02
81	T	1,2,4-Trichlorobenzene	0.899	0.879	2.2	84	0.02

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

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042201.D
Acq On : 31 Mar 2025 08:51
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 01 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	86	0.02
2	T	Dichlorodifluoromethane	10.000	10.220	-2.2	93	0.00
3		Chlorodifluoromethane	10.000	9.604	4.0	86	0.00
4		Chloromethane	10.000	9.439	5.6	86	0.00
5	T	Vinyl Chloride	10.000	8.595	14.0	86	0.00
6	T	Bromomethane	10.000	9.232	7.7	85	0.00
7		Chloroethane	10.000	9.112	8.9	84	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.026	-0.3	90	0.00
9	T	Propene	10.000	8.521	14.8	77	0.00
10	T	Heptane	10.000	8.821	11.8	78	0.04
11	T	Trichlorofluoromethane	10.000	9.988	0.1	93	0.01
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.588	4.1	87	0.01
13		Ethanol	10.000	4.238	57.6#	84	0.00
14	T	Bromoethene	10.000	9.159	8.4	86	0.01
15	T	Acetone	10.000	8.580	14.2	93	0.00
16	T	1,3-Butadiene	10.000	8.709	12.9	90	0.00
17		tert-Butyl alcohol	10.000	8.974	10.3	83	0.01
18	T	1,1-Dichloroethene	10.000	9.296	7.0	88	0.01
19	T	Isopropyl Alcohol	10.000	9.039	9.6	88	0.00
20	T	Methylene Chloride	10.000	8.070	19.3	83	0.01
21	T	Allyl Chloride	10.000	9.079	9.2	86	0.02
22	T	trans-1,2-Dichloroethene	10.000	8.924	10.8	83	0.02
23	T	Vinyl Acetate	10.000	8.485	15.2	89	0.01
24	T	1,1-Dichloroethane	10.000	9.730	2.7	89	0.02
25	T	Ethyl Acetate	10.000	9.151	8.5	83	0.02
26	T	Hexane	10.000	9.236	7.6	84	0.02
27	T	Carbon Disulfide	10.000	9.481	5.2	86	0.01
28	T	Methyl tert-Butyl Ether	10.000	12.635	-26.3	115	0.02
29	T	Chloroform	10.000	10.200	-2.0	94	0.02
30	T	Cyclohexane	10.000	9.162	8.4	83	0.03
31	T	cis-1,2-Dichloroethene	10.000	9.545	4.6	86	0.02
32	T	1,1,1-Trichloroethane	10.000	9.483	5.2	93	0.02
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	84	0.03
34	T	2-Butanone	10.000	9.026	9.7	83	0.02
35	T	Carbon Tetrachloride	10.000	10.335	-3.4	97	0.03
36	T	Benzene	10.000	9.350	6.5	84	0.03
37	T	1,2-Dichloroethane	10.000	10.453	-4.5	93	0.02
38	T	Trichloroethene	10.000	9.452	5.5	88	0.03
39	T	1,2-Dichloropropane	10.000	9.212	7.9	83	0.03
40	T	1,4-Dioxane	10.000	8.741	12.6	84	0.04
41	T	Tetrahydrofuran	10.000	8.886	11.1	79	0.02
42	T	Bromodichloromethane	10.000	10.365	-3.7	89	0.03
43		Methyl Methacrylate	10.000	8.814	11.9	78	0.04
44	T	2,2,4-Trimethylpentane	10.000	9.143	8.6	80	0.03
45	T	t-1,3-Dichloropropene	10.000	9.167	8.3	79	0.04
46	T	cis-1,3-Dichloropropene	10.000	9.158	8.4	78	0.04
47	T	1,1,2-Trichloroethane	10.000	9.582	4.2	85	0.04
48	T	Dibromochloromethane	10.000	10.186	-1.9	88	0.04

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042201.D
Acq On : 31 Mar 2025 08:51
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Apr 01 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 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	9.780	2.2	82	0.03
50	T	4-Methyl-2-Pentanone	10.000	8.261	17.4	78	0.05
51	T	2-Hexanone	10.000	8.093	19.1	76	0.03
52	T	Tetrachloroethene	10.000	8.574	14.3	83	0.03
53	T	Toluene	10.000	9.106	8.9	80	0.04
54	T	1,2-Dibromoethane	10.000	9.771	2.3	86	0.03
55	I	Chlorobenzene-d5	10.000	10.000	0.0	82	0.03
56		1,1,1,2-Tetrachloroethane	10.000	10.136	-1.4	89	0.03
57	T	Chlorobenzene	10.000	9.669	3.3	86	0.03
58	T	Ethyl Benzene	10.000	9.446	5.5	82	0.02
59	T	m/p-Xylene	20.000	19.336	3.3	85	0.02
60	T	o-Xylene	10.000	9.526	4.7	83	0.03
61	T	Styrene	10.000	9.424	5.8	79	0.03
62		Isopropylbenzene	10.000	9.689	3.1	86	0.02
63	T	1,1,2,2-Tetrachloroethane	10.000	9.518	4.8	84	0.02
64		n-propylbenzene	10.000	9.826	1.7	88	0.02
65		tert-Butylbenzene	10.000	9.526	4.7	88	0.02
66	T	Benzyl Chloride	10.000	8.185	18.1	69	0.02
67		sec-Butylbenzene	10.000	9.677	3.2	90	0.02
68	S	1-Bromo-4-Fluorobenzene	10.000	10.190	-1.9	84	0.02
69		p-Isopropyltoluene	10.000	9.684	3.2	90	0.02
70		n-Butylbenzene	10.000	9.850	1.5	91	0.02
71		2-Chlorotoluene	10.000	9.652	3.5	85	0.02
72	T	4-Ethyltoluene	10.000	9.775	2.2	87	0.02
73	T	1,3,5-Trimethylbenzene	10.000	9.709	2.9	88	0.02
74	T	1,2,4-Trimethylbenzene	10.000	9.202	8.0	89	0.02
75	T	1,3-Dichlorobenzene	10.000	9.895	1.1	90	0.02
76	T	1,4-Dichlorobenzene	10.000	10.014	-0.1	90	0.02
77	T	1,2-Dichlorobenzene	10.000	9.887	1.1	90	0.02
78	T	Hexachloro-1,3-Butadiene	10.000	8.395	16.1	83	0.02
79	T	Naphthalene	10.000	10.072	-0.7	89	0.02
80	T	Naphthalene,2-methyl-	10.000	10.537	-5.4	83	0.02
81	T	1,2,4-Trichlorobenzene	10.000	9.779	2.2	84	0.02

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

QC SAMPLE DATA

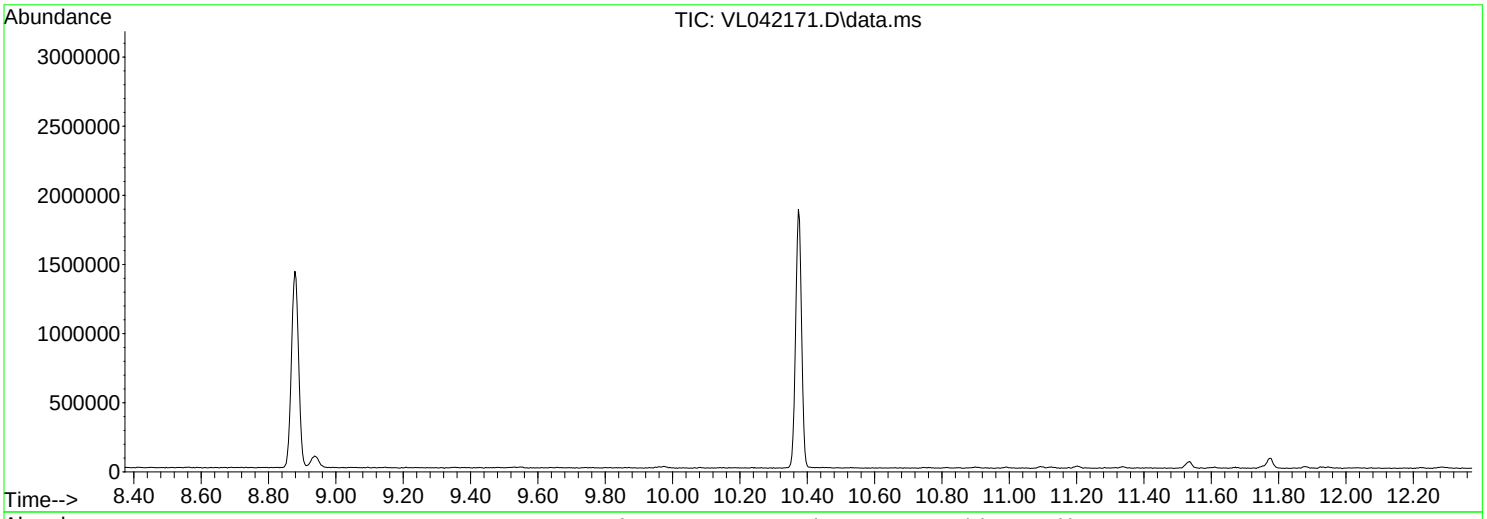
BFB

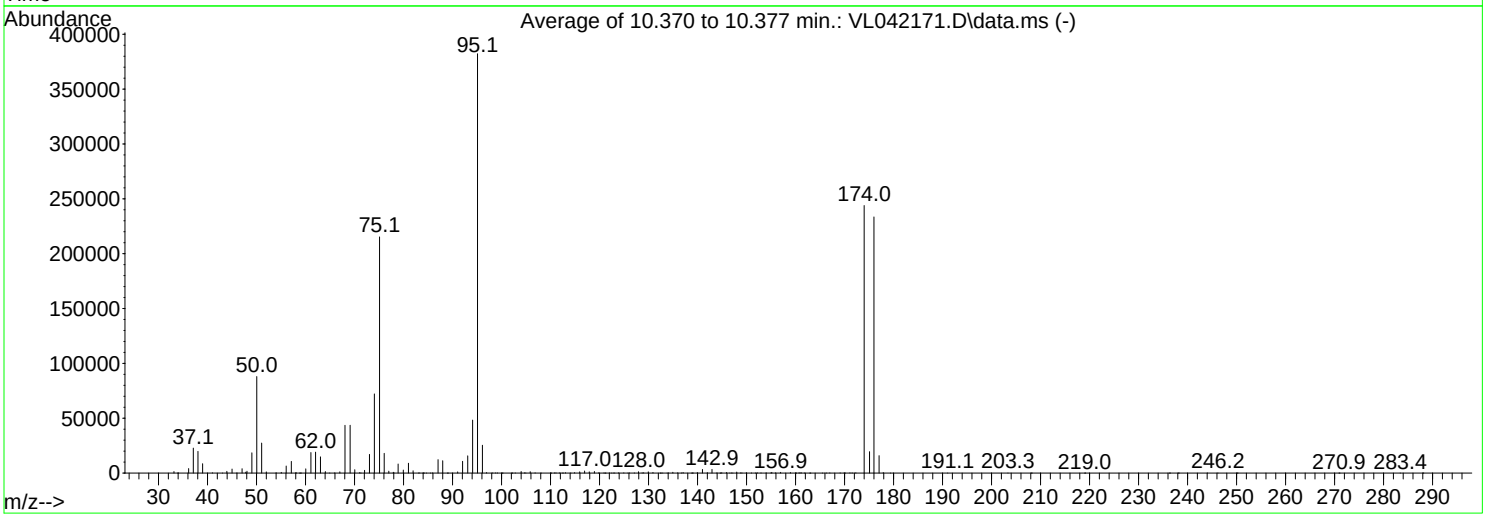
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025





AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Average of 10.370 to 10.377 min.: VL042171.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	1400	47.05	4001	57.95	183	67.00	1161
33.90	31	47.80	824	58.15	219	68.05	43530
36.15	4138	48.05	1739	58.80	27	69.10	43612
37.10	22759	49.05	18477	59.20	62	70.05	3072
38.05	19773	50.05	87995	60.05	3842	71.05	391
39.00	8558	51.05	27372	61.10	18723	71.30	148
41.00	270	52.00	1090	62.05	19083	72.05	2510
43.05	65	54.00	265	63.05	14806	73.05	17047
43.95	1610	55.05	633	64.05	1355	74.05	72175
45.00	3695	56.05	6441	64.95	108	75.10	215296
46.00	111	57.10	10669	65.95	87	76.05	17968

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.370 to 10.377 min.: VL042171.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1756	84.70	60	96.10	25383	105.85	1266
77.90	365	85.50	69	96.95	454	106.85	241
78.00	749	85.90	91	98.20	118	108.10	78
78.90	8287	87.05	12260	98.80	119	110.00	6
79.95	2770	88.00	11240	99.15	113	110.80	163
81.00	8994	88.95	27	100.10	27	111.10	228
81.95	2105	91.05	1113	102.10	25	111.80	169
83.05	87	92.05	10732	102.80	142	112.40	56
83.30	152	93.10	15706	104.00	1429	112.60	56
83.95	3	94.10	48315	104.70	208	113.05	295
84.20	78	95.10	382268	104.95	148	114.15	45

Average of 10.370 to 10.377 min.: VL042171.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
114.90	395	123.10	107	132.40	22	141.00	3317
115.95	1131	123.85	235	132.90	67	142.00	364
116.95	1918	124.95	222	133.80	40	142.95	3384
117.90	1124	125.80	79	134.10	121	143.95	131
118.95	1429	126.10	146	134.95	750	144.60	27
119.80	193	127.10	144	135.95	199	144.95	267
120.90	128	127.95	1262	136.70	145	145.90	507
121.10	24	128.70	250	137.05	545	146.60	55
122.00	119	129.00	312	138.80	28	146.95	155
122.50	33	129.95	1135	139.10	132	147.20	55
122.90	76	130.90	590	139.95	372	148.00	938

Average of 10.370 to 10.377 min.: VL042171.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.80	166	156.95	650	169.10	175	179.40	63
149.05	162	158.95	474	169.90	95	191.05	70
149.95	274	160.00	21	170.15	82	203.35	48
151.00	148	160.70	162	171.10	216	208.10	24
151.80	110	160.90	233	171.55	165	219.00	22
152.25	182	161.15	346	172.30	258	236.30	19
152.95	205	161.80	102	174.00	243904	238.10	24
154.00	201	162.90	25	175.10	19539	244.05	44
155.00	271	165.50	37	176.00	233493	246.20	61
155.15	639	166.35	72	177.05	15877	250.10	21
155.90	116	167.00	175	177.90	397	270.90	18

Average of 10.370 to 10.377 min.: VL042171.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.40	34						
288.00	20						

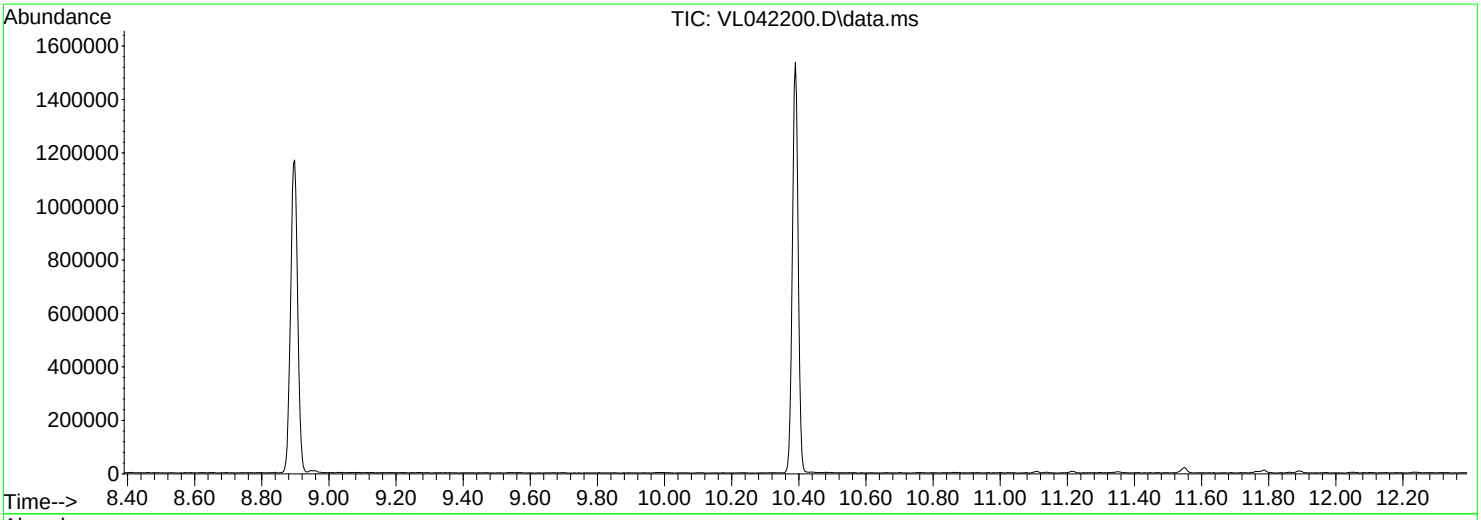
BFB

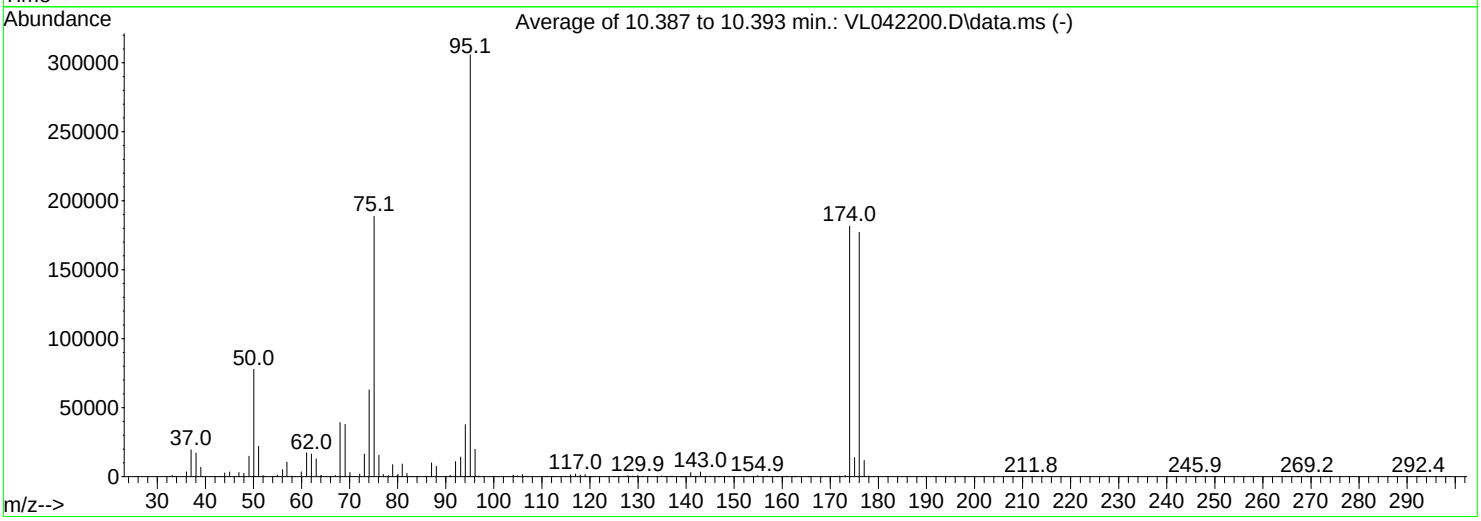
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042200.D
Acq On : 31 Mar 2025 08:09
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025





AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.4	77685	PASS
75	95	30	66	61.8	188843	PASS
95	95	100	100	100.0	305749	PASS
96	95	5	9	6.5	19795	PASS
173	174	0.00	2	0.5	913	PASS
174	95	50	120	59.4	181483	PASS
175	174	4	9	7.6	13787	PASS
176	174	93	101	97.6	177067	PASS
177	176	5	9	6.6	11740	PASS

Average of 10.387 to 10.393 min.: VL042200.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	975	46.00	208	57.95	385	67.05	87
36.05	3507	46.95	3045	58.75	124	68.00	3919
37.00	19484	48.00	2455	59.95	3488	69.05	3797
38.05	17138	49.05	14857	61.05	17269	70.05	305
39.05	6803	50.05	77685	62.05	16376	70.90	171
41.10	109	51.05	22030	63.05	12891	72.10	1817
41.90	98	52.00	703	63.90	548	73.05	16309
42.15	86	52.20	275	64.10	956	74.05	62893
43.15	299	54.95	1071	64.95	279	75.10	188843
44.00	2694	56.05	5087	65.20	156	76.10	15437
45.05	3400	56.95	10540	66.00	24	77.00	1630

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.387 to 10.393 min.: VL042200.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.80	264	87.05	9968	99.80	70	112.80	254
78.10	661	88.05	7479	102.85	137	114.90	236
78.95	8711	88.80	77	104.00	1139	115.95	1319
79.90	820	89.85	36	104.90	600	117.00	1833
80.05	1619	90.90	1038	105.95	1509	117.95	1303
80.95	9196	92.05	10949	106.75	143	119.00	1558
81.90	2322	93.10	14323	107.05	182	120.10	43
82.80	113	94.05	37717	109.95	218	123.05	82
83.15	178	95.10	305749	111.05	232	123.75	138
84.00	18	96.10	19795	111.90	136	124.90	24
85.80	205	96.90	427	112.15	129	125.80	143

Average of 10.387 to 10.393 min.: VL042200.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.10	157	135.70	87	143.00	3359	152.80	320
127.70	373	136.60	94	144.15	224	153.95	264
127.95	605	136.90	211	145.00	397	154.90	748
128.85	484	137.10	389	145.95	323	155.85	174
129.10	132	138.90	26	146.70	31	156.10	43
129.80	224	139.15	60	147.10	158	156.60	104
129.95	745	139.70	33	147.80	201	156.85	500
131.00	393	140.00	56	148.05	393	157.10	137
132.00	99	140.95	3083	148.95	316	157.60	31
133.95	133	141.85	346	149.95	357	158.00	87
134.95	655	142.20	120	151.85	168	158.80	88

Average of 10.387 to 10.393 min.: VL042200.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.00	240	171.85	485	269.20	29		
160.00	23	172.10	118	272.90	28		
160.85	327	173.10	913	292.40	20		
161.10	136	174.00	181483				
162.00	35	175.05	13787				
162.65	44	176.00	177067				
165.40	19	177.05	11740				
168.10	38	178.00	473				
169.10	98	211.80	30				
170.20	167	245.90	22				
170.95	120	267.20	22				

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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	223 W. 29th St NY, NY	Date Received:	
Client Sample ID:	VL0331ABL01	SDG No.:	Q1649
Lab Sample ID:	VL0331ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042202.D	1		03/31/25 09:34	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

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Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	223 W. 29th St NY, NY	Date Received:	
Client Sample ID:	VL0331ABL01	SDG No.:	Q1649
Lab Sample ID:	VL0331ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042202.D	1		03/31/25 09:34	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	182000		2.8			
540-36-3	1,4-Difluorobenzene	518000		3.981			
3114-55-4	Chlorobenzene-d5	465000		8.901			

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Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	223 W. 29th St NY, NY	Date Received:	
Client Sample ID:	VL0331ABL01	SDG No.:	Q1649
Lab Sample ID:	VL0331ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042202.D	1		03/31/25 09:34	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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

E = Value Exceeds Calibration Range

D = Dilution

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

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042202.D
Acq On : 31 Mar 2025 09:34
Operator : SY/MD
Sample : VL0331ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0331ABL01

Quant Time: Apr 01 01:35:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

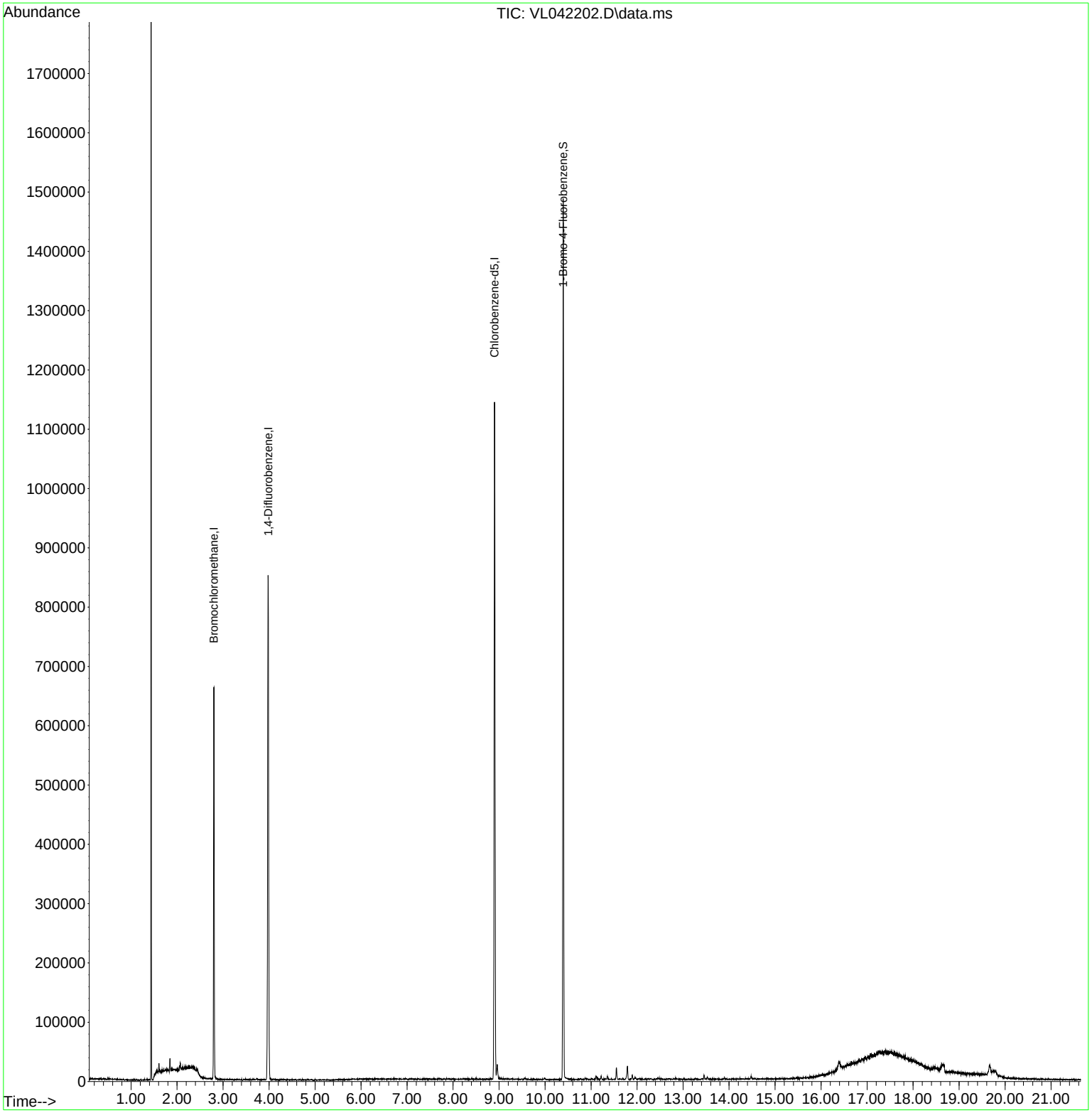
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	181807	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	517775	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	464953	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	379890	9.949	ppbv	0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%			
Target Compounds						Qvalue

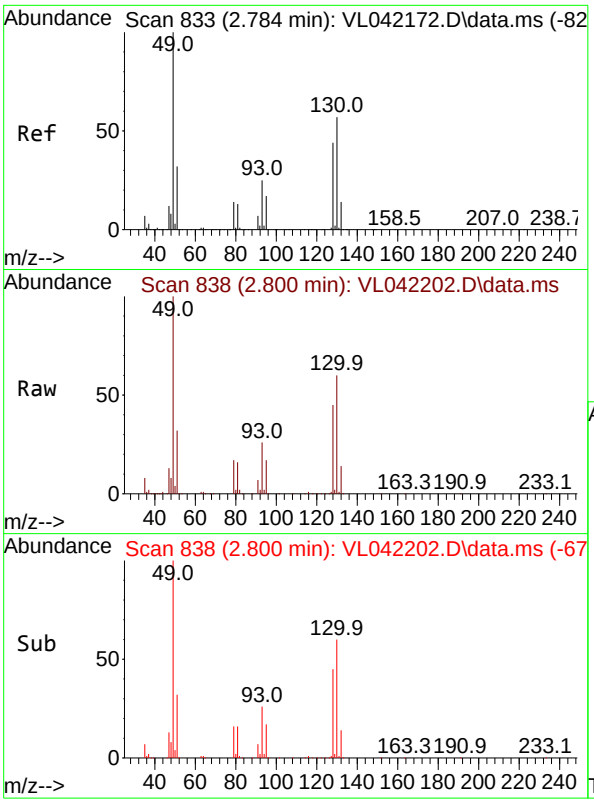
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042202.D
Acq On : 31 Mar 2025 09:34
Operator : SY/MD
Sample : VL0331ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0331ABL01

Quant Time: Apr 01 01:35:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



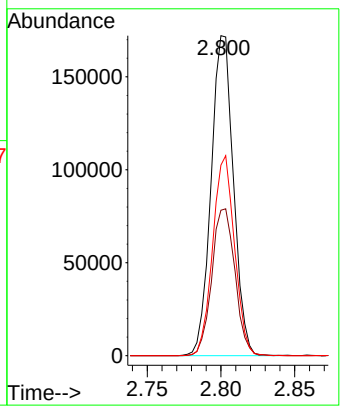


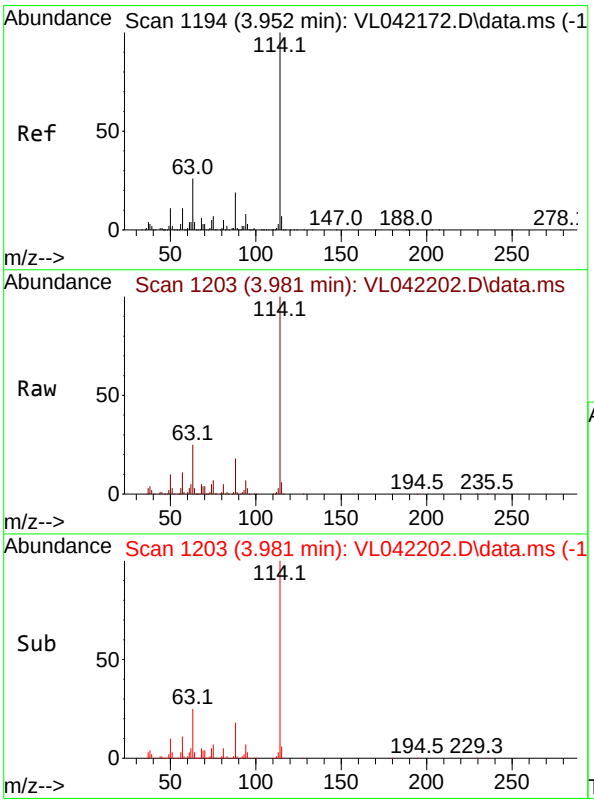
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. 0.016 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VL0331ABL01

Tgt Ion: 49 Resp: 181807

Ion	Ratio	Lower	Upper
49	100		
128	47.5	22.9	68.5
130	61.0	28.8	86.4

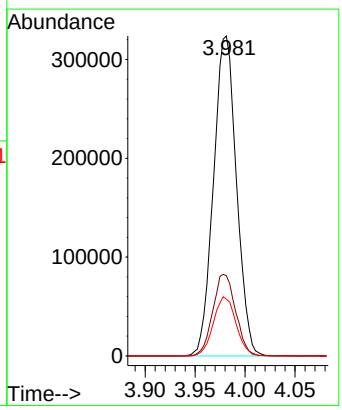


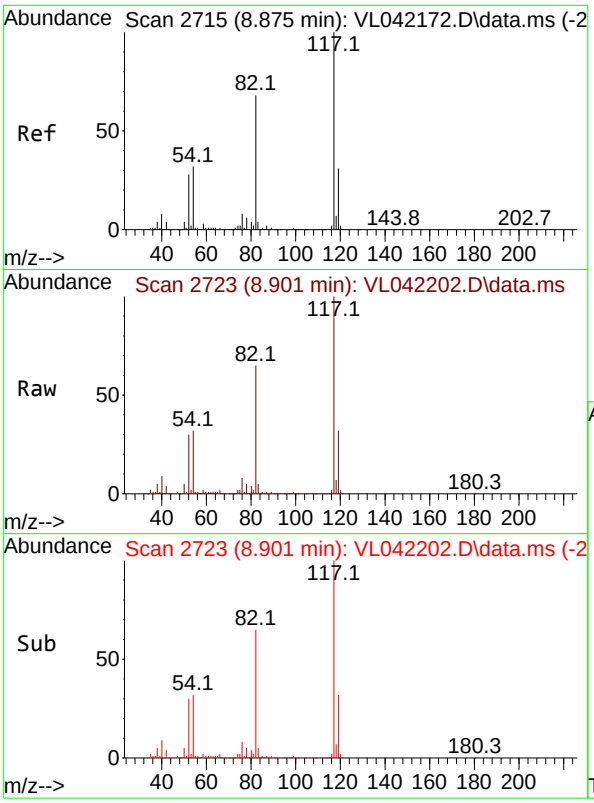


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.029 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

Tgt Ion:114 Resp: 517775

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.7	31.1
88	18.2	15.0	22.4



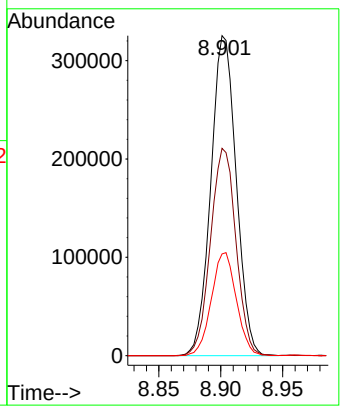


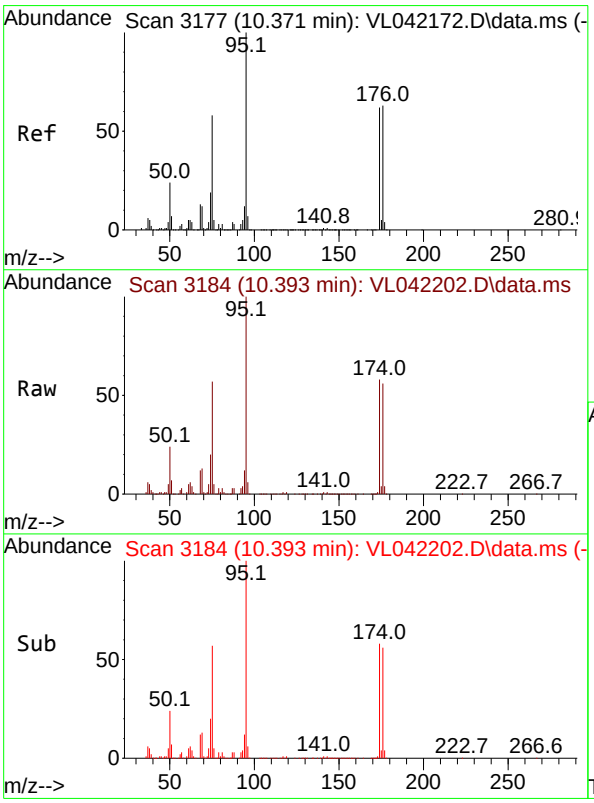
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2
Delta R.T. 0.026 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

Instrument :
MSVOA_L
ClientSampleId :
VL0331ABL01

Tgt Ion:117 Resp: 464953

Ion	Ratio	Lower	Upper
117	100		
82	65.0	55.8	83.6
119	31.7	25.5	38.3

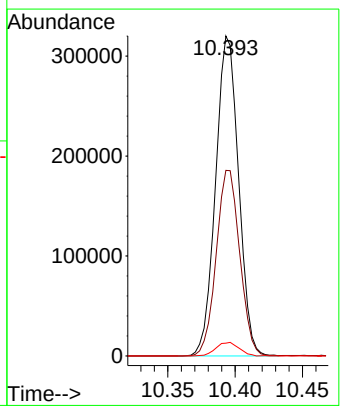




#68
1-Bromo-4-Fluorobenzene
Concen: 9.949 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.022 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

Tgt Ion: 95 Resp: 379890

Ion	Ratio	Lower	Upper
95	100		
174	59.4	50.6	76.0
175	4.3	3.8	5.6



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Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	223 W. 29th St NY, NY	Date Received:	
Client Sample ID:	VL0331ABS01	SDG No.:	Q1649
Lab Sample ID:	VL0331ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042203.D	1		03/31/25 10:17	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.4	51.4		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.70	20.0		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.70	22.2		0.030	0.080	ug/m3
74-83-9	Bromomethane	9.10	35.3		0.54	1.94	ug/m3
75-00-3	Chloroethane	9.30	24.5		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.30	27.4		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.3	57.9		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.70	74.3		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.3	72.0		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.00	27.3		0.58	1.52	ug/m3
142-82-5	Heptane	9.20	37.7		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.20	36.5		0.56	1.98	ug/m3
67-64-1	Acetone	8.90	21.1		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	9.30	29.0		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	11.0	39.7		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.40	29.2		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.20	36.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.0	40.5		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.40	32.4		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.50	28.0		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.6	66.7		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.0	39.6		0.36	1.98	ug/m3
67-66-3	Chloroform	10.6	51.8		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.80	53.5		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.50	44.4		0.47	2.34	ug/m3
71-43-2	Benzene	9.80	31.3		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	11.0	44.5		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.70	52.1		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.70	44.8		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.8	72.3		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.60	35.2		0.37	2.05	ug/m3
108-88-3	Toluene	9.60	36.2		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.10	41.3		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.40	42.7		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.2	55.6		0.38	2.73	ug/m3

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Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	223 W. 29th St NY, NY	Date Received:	
Client Sample ID:	VL0331ABS01	SDG No.:	Q1649
Lab Sample ID:	VL0331ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042203.D	1		03/31/25 10:17	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.6	90.3		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.3	79.2		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	9.00	61.0		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.4	47.9		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.1	43.9		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	20.6	89.5		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.4	45.2		0.52	2.17	ug/m3
100-42-5	Styrene	10.1	43.0		0.47	2.13	ug/m3
75-25-2	Bromoform	10.3	107		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.4	71.4		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.3	53.3		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.4	51.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.80	48.2		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.5	63.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.5	63.1		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.6	63.7		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.30	69.0		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.40	89.6		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	8.70	19.3		0.29	1.11	ug/m3
91-20-3	Naphthalene	9.50	49.8		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	10.5	51.6		0.59	2.46	ug/m3
110-54-3	Hexane	9.50	33.5		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	8.90	27.9		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.90	32.1		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.20	37.7		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	176000		2.803			
540-36-3	1,4-Difluorobenzene	499000		3.981			
3114-55-4	Chlorobenzene-d5	456000		8.904			

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Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	223 W. 29th St NY, NY	Date Received:	
Client Sample ID:	VL0331ABS01	SDG No.:	Q1649
Lab Sample ID:	VL0331ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042203.D	1		03/31/25 10:17	VL033125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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

E = Value Exceeds Calibration Range

D = Dilution

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

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042203.D
Acq On : 31 Mar 2025 10:17
Operator : SY/MD
Sample : VL0331ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0331ABS01

Quant Time: Apr 01 01:35:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	175685	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	498986	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	456400	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	385330	10.281	ppbv	0.03
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	270376	10.423	ppbv	99
3) Chlorodifluoromethane	1.482	51	262345	9.900	ppbv	95
4) Chloromethane	1.538	50	102731	9.691	ppbv	100
5) Vinyl Chloride	1.586	62	97910	8.716	ppbv	95
6) Bromomethane	1.673	94	43862	9.130	ppbv	98
7) Chloroethane	1.712	64	39774	9.347	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	228198	10.330	ppbv	94
9) Propene	1.489	41	104679	8.618	ppbv	98
10) Heptane	5.007	43	298492	9.239	ppbv	99
11) Trichlorofluoromethane	1.887	101	258953	10.260	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	200210	9.650	ppbv	96
13) Ethanol	1.732	45	5239	4.563	ppbv	91
14) Bromoethene	1.790	108	74401	9.361	ppbv	98
15) Acetone	1.845	43	218378	8.888	ppbv	95
16) 1,3-Butadiene	1.615	39	104247	8.688	ppbv	99
17) tert-Butyl alcohol	2.049	59	276592	9.038	ppbv	99
18) 1,1-Dichloroethene	2.042	96	89252	9.202	ppbv	99
19) Isopropyl Alcohol	1.894	45	127449	9.193	ppbv	99
20) Methylene Chloride	2.072	84	76788	8.391	ppbv	97
21) Allyl Chloride	2.107	41	154876	8.938	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	102643	9.157	ppbv	96
23) Vinyl Acetate	2.476	43	89760	8.441	ppbv #	95
24) 1,1-Dichloroethane	2.421	63	208334	10.026	ppbv	99
25) Ethyl Acetate	2.852	43	609975	9.565	ppbv	99
26) Hexane	2.842	57	234267	9.511	ppbv	99
27) Carbon Disulfide	2.159	76	245905	9.310	ppbv	99
28) Methyl tert-Butyl Ether	2.454	73	169404	11.046	ppbv	94
29) Chloroform	2.865	83	382690	10.616	ppbv	100
30) Cyclohexane	3.881	84	200894	9.393	ppbv	97
31) cis-1,2-Dichloroethene	2.735	61	249599	9.981	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	402506	9.753	ppbv	99
34) 2-Butanone	2.570	43	343896	9.504	ppbv	100
35) Carbon Tetrachloride	3.784	117	412312	10.578	ppbv	99
36) Benzene	3.677	78	482499	9.754	ppbv	97
37) 1,2-Dichloroethane	3.237	62	310502	10.964	ppbv	98
38) Trichloroethene	4.577	130	201215	9.749	ppbv	95
39) 1,2-Dichloropropane	4.340	63	174119	9.665	ppbv	92
40) 1,4-Dioxane	4.616	88	84833	8.872	ppbv #	91
41) Tetrahydrofuran	3.072	42	194140	9.318	ppbv	99
42) Bromodichloromethane	4.515	83	422881	10.831	ppbv	97
43) Methyl Methacrylate	4.913	69	191894	9.163	ppbv	100
44) 2,2,4-Trimethylpentane	4.667	57	792762	9.483	ppbv	98
45) t-1,3-Dichloropropene	6.447	75	203792	9.071	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042203.D
Acq On : 31 Mar 2025 10:17
Operator : SY/MD
Sample : VL0331ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0331ABS01

Quant Time: Apr 01 01:35:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

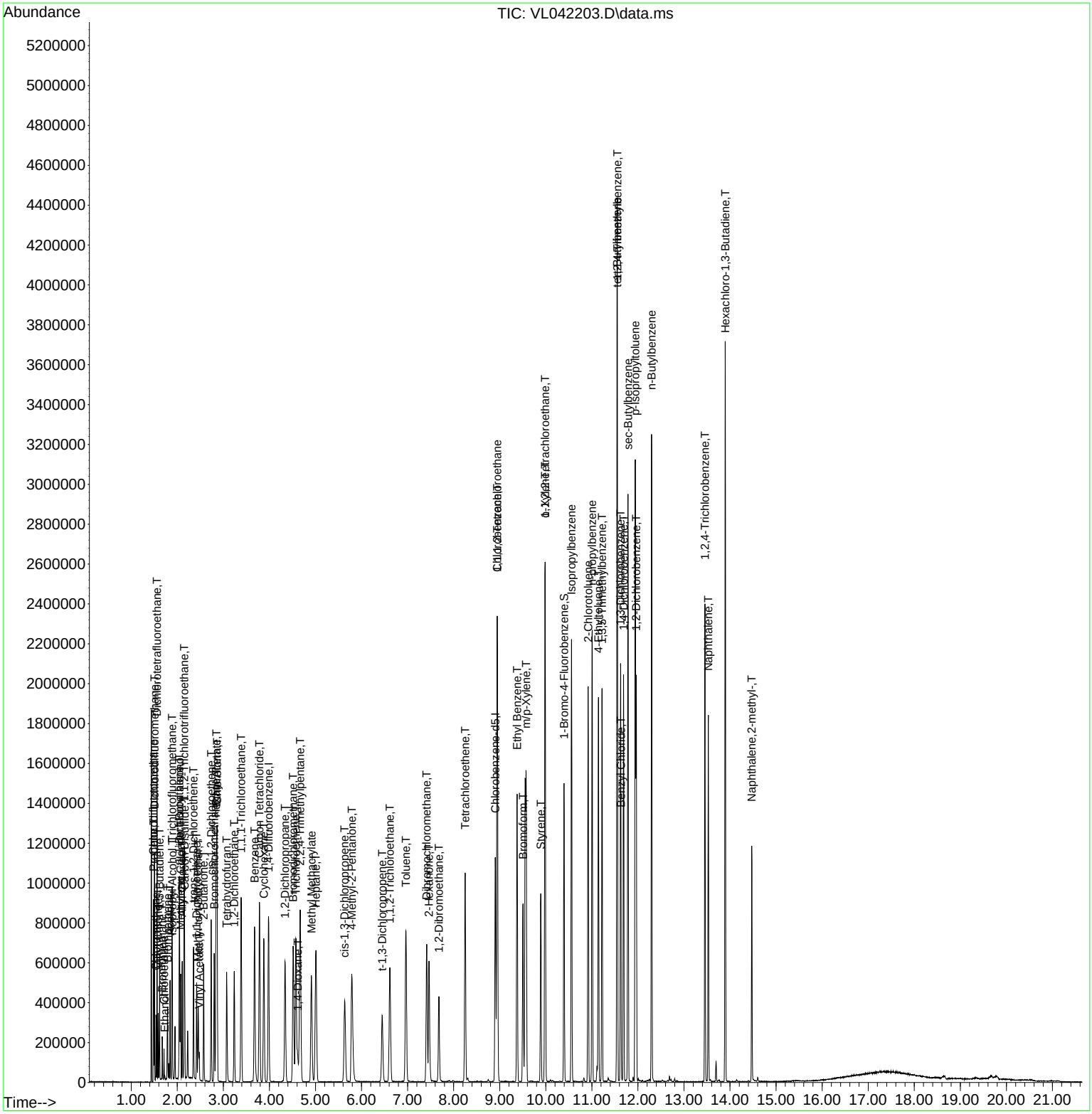
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	258084	9.371	ppbv		98
47) 1,1,2-Trichloroethane	6.616	97	194204	10.197	ppbv		98
48) Dibromochloromethane	7.415	129	342254	10.604	ppbv		99
49) Bromoform	9.506	173	298349	10.296	ppbv		100
50) 4-Methyl-2-Pentanone	5.787	43	493320	8.603	ppbv		98
51) 2-Hexanone	7.464	43	405558	8.613	ppbv		97
52) Tetrachloroethene	8.250	164	176804	9.012	ppbv		95
53) Toluene	6.965	91	560307	9.555	ppbv		100
54) 1,2-Dibromoethane	7.681	107	273381	10.298	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.946	131	266468	10.607	ppbv		98
57) Chlorobenzene	8.946	112	448854	10.368	ppbv	#	95
58) Ethyl Benzene	9.377	91	815513	10.059	ppbv		99
59) m/p-Xylene	9.574	91	1331237m	20.565	ppbv		
60) o-Xylene	9.985	91	673552	10.379	ppbv		99
61) Styrene	9.891	104	322981	10.060	ppbv		99
62) Isopropylbenzene	10.558	105	1021273	10.524	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.985	83	411620	10.440	ppbv		100
64) n-propylbenzene	11.008	120	264706	10.596	ppbv		97
65) tert-Butylbenzene	11.548	119	913025	10.173	ppbv		97
66) Benzyl Chloride	11.633	91	78394	8.232	ppbv		99
67) sec-Butylbenzene	11.785	105	1292454	10.360	ppbv		100
69) p-Isopropyltoluene	11.943	119	1113087	10.362	ppbv		99
70) n-Butylbenzene	12.296	91	1144962	10.422	ppbv		99
71) 2-Chlorotoluene	10.921	91	775424	10.295	ppbv		99
72) 4-Ethyltoluene	11.144	105	848380	10.500	ppbv		100
73) 1,3,5-Trimethylbenzene	11.222	105	736772	10.441	ppbv		97
74) 1,2,4-Trimethylbenzene	11.555	105	800063	9.841	ppbv		97
75) 1,3-Dichlorobenzene	11.626	146	470306	10.548	ppbv		99
76) 1,4-Dichlorobenzene	11.688	146	467631	10.538	ppbv		99
77) 1,2-Dichlorobenzene	11.963	146	460911	10.617	ppbv		99
78) Hexachloro-1,3-Butadiene	13.898	225	371995	8.418	ppbv		100
79) Naphthalene	13.529	128	840768	9.455	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	328839	7.541	ppbv		99
81) 1,2,4-Trichlorobenzene	13.455	180	381981	9.313	ppbv		99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042203.D
Acq On : 31 Mar 2025 10:17
Operator : SY/MD
Sample : VL0331ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0331ABS01

Quant Time: Apr 01 01:35:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	vl032725	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM			Peak Integrated by Software
VSTDICC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM			Peak Integrated by Software
VSTDICC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM			Peak Integrated by Software
VSTDICC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software
VSTDICC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM			Peak Integrated by Software

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Manual Integration Report

Sequence:	vl032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	Cyclohexane	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	m/p-Xylene	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	Propene	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	Tetrahydrofuran	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.5	VL042175.D	Trichloroethene	SAM	3/31/2025 11:26:33 AM			Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:25:04 AM			Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:25:04 AM			Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,2-Dibromoethane	SAM	3/31/2025 11:25:04 AM			Peak Integrated by Software
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM			Peak Integrated by Software

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Manual Integration Report

Sequence:	vl032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM			Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:26:39 AM			Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:26:39 AM			Peak Integrated by Software
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM			Peak Integrated by Software
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM			Peak Integrated by Software
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM			Peak Integrated by Software
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM			Peak Integrated by Software
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM			Peak Integrated by Software
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM			Peak Integrated by Software

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Manual Integration Report

Sequence:	VL033125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042201.D	1,1,2-Trichloroethane	SAM	4/1/2025 7:30:55 AM	MMDadoda	4/1/2025 1:19:08 PM	Peak Integrated by Software
VSTDCCC010	VL042201.D	1,4-Dioxane	SAM	4/1/2025 7:30:55 AM	MMDadoda	4/1/2025 1:19:08 PM	Peak Integrated by Software
VSTDCCC010	VL042201.D	m/p-Xylene	SAM	4/1/2025 7:30:55 AM	MMDadoda	4/1/2025 1:19:08 PM	Peak Integrated by Software
VL0331ABS01	VL042203.D	m/p-Xylene	SAM	4/1/2025 7:31:07 AM	MMDadoda	4/1/2025 1:19:10 PM	Peak Integrated by Software
Q1669-06DUP	VL042206.D	4-Methyl-2-Pentanone	SAM	4/1/2025 7:31:12 AM	MMDadoda	4/1/2025 1:19:14 PM	Peak Integrated by Software
Q1669-06DUP	VL042206.D	Naphthalene,2-methyl-	SAM	4/1/2025 7:31:12 AM	MMDadoda	4/1/2025 1:19:14 PM	Peak Integrated by Software
Q1669-06DUP	VL042206.D	Tetrachloroethene	SAM	4/1/2025 7:31:12 AM	MMDadoda	4/1/2025 1:19:14 PM	Peak Integrated by Software
Q1649-01	VL042207.D	Chlorodifluoromethane	SAM	4/1/2025 7:47:22 AM	MMDadoda	4/1/2025 1:19:16 PM	Peak Integrated by Software
Q1649-01	VL042207.D	Heptane	SAM	4/1/2025 7:47:22 AM	MMDadoda	4/1/2025 1:19:16 PM	Peak Integrated by Software
Q1649-01	VL042207.D	m/p-Xylene	SAM	4/1/2025 7:47:22 AM	MMDadoda	4/1/2025 1:19:16 PM	Peak Integrated by Software
Q1649-01	VL042207.D	Methyl tert-Butyl Ether	SAM	4/1/2025 7:47:22 AM	MMDadoda	4/1/2025 1:19:16 PM	Peak Integrated by Software
Q1649-01	VL042207.D	Trichloroethene	SAM	4/1/2025 7:47:22 AM	MMDadoda	4/1/2025 1:19:16 PM	Peak Integrated by Software
Q1649-02	VL042208.D	2,2,4-Trimethylpentane	SAM	4/1/2025 7:31:17 AM	MMDadoda	4/1/2025 1:19:18 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL033125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1649-02	VL042208.D	Chlorodifluoromethane	SAM	4/1/2025 7:31:17 AM	MMDadoda	4/1/2025 1:19:18 PM	Peak Integrated by Software
Q1649-02	VL042208.D	Cyclohexane	SAM	4/1/2025 7:31:17 AM	MMDadoda	4/1/2025 1:19:18 PM	Peak Integrated by Software
Q1649-02	VL042208.D	Heptane	SAM	4/1/2025 7:31:17 AM	MMDadoda	4/1/2025 1:19:18 PM	Peak Integrated by Software
Q1649-02	VL042208.D	m/p-Xylene	SAM	4/1/2025 7:31:17 AM	MMDadoda	4/1/2025 1:19:18 PM	Peak Integrated by Software
Q1649-02	VL042208.D	Trichloroethene	SAM	4/1/2025 7:31:17 AM	MMDadoda	4/1/2025 1:19:18 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,NS
3	VSTDICC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,NS
4	VSTDICC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,NS
5	VSTDICC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,NS
6	VSTDICC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,NS
7	VSTDICC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,NS
8	VSTDICC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,NS
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,NS
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,NS
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,NS
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,NS
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,NS
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,NS
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,NS
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,NS
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,NS
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,NS
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,NS
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,NS

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL033125

Review By	Semsettin Yesilyurt	Review On	4/1/2025 8:03:30 AM				
Supervise By	Amit Patel	Supervise On	4/1/2025 1:18:11 PM				
SubDirectory	VL033125	HP Acquire Method	TO15AIR.M		HP Processing Method	VL032725AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042200.D	31 Mar 2025 08:09	SY/MD	Ok
2	VSTDCCC010	VL042201.D	31 Mar 2025 08:51	SY/MD	Ok,M
3	VL0331ABL01	VL042202.D	31 Mar 2025 09:34	SY/MD	Ok
4	VL0331ABS01	VL042203.D	31 Mar 2025 10:17	SY/MD	Ok,M
5	Q1669-06	VL042204.D	31 Mar 2025 11:06	SY/MD	Dilution
6	Q1669-06DL	VL042205.D	31 Mar 2025 11:52	SY/MD	Ok,M
7	Q1669-06DUP	VL042206.D	31 Mar 2025 12:26	SY/MD	Ok,M
8	Q1649-01	VL042207.D	31 Mar 2025 13:05	SY/MD	Ok,M
9	Q1649-02	VL042208.D	31 Mar 2025 13:36	SY/MD	Ok,M
10	VIBLK	VL042209.D	31 Mar 2025 14:07	SY/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042171.D	27 Mar 2025 07:44		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042172.D	27 Mar 2025 08:26		SY/MD	Ok,NS
3	VSTDICC002	VSTDICC002	VL042173.D	27 Mar 2025 08:59		SY/MD	Ok,NS
4	VSTDICC001	VSTDICC001	VL042174.D	27 Mar 2025 09:30		SY/MD	Ok,NS
5	VSTDICC0.5	VSTDICC0.5	VL042175.D	27 Mar 2025 10:01		SY/MD	Ok,NS
6	VSTDICC0.1	VSTDICC0.1	VL042176.D	27 Mar 2025 10:32		SY/MD	Ok,NS
7	VSTDICC0.03	VSTDICC0.03	VL042177.D	27 Mar 2025 11:03		SY/MD	Ok,NS
8	VSTDICC015	VSTDICC015	VL042178.D	27 Mar 2025 11:36		SY/MD	Ok,NS
9	VSTDICV010	ICVVL032725	VL042179.D	27 Mar 2025 12:23		SY/MD	Ok,NS
10	VL0327ABL01	VL0327ABL01	VL042180.D	27 Mar 2025 13:50		SY/MD	Ok
11	VL0327ABS01	VL0327ABS01	VL042181.D	27 Mar 2025 14:39		SY/MD	Ok,NS
12	QC032625 CAN 10448	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41		SY/MD	Ok
13	Q1649-01	SV1	VL042183.D	27 Mar 2025 17:13	rerun 4X,not required	SY/MD	Not Ok
14	Q1649-02	SV2	VL042184.D	27 Mar 2025 17:45	rerun 4X,not required	SY/MD	Not Ok
15	Q1669-01	IA-B9-3-3262025	VL042185.D	27 Mar 2025 18:22	Need 5x	SY/MD	Dilution
16	Q1669-02	IA-B9-2-3262025	VL042186.D	27 Mar 2025 18:59		SY/MD	Ok,NS
17	Q1669-03	IA-B9-1-3262025	VL042187.D	27 Mar 2025 19:36		SY/MD	Ok,NS
18	Q1669-04	AA-2-3252025	VL042188.D	27 Mar 2025 20:12		SY/MD	Ok,NS

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1669-09	AA-3-3252025	VL042189.D	27 Mar 2025 20:48		SY/MD	Ok,NS
20	Q1669-09DUP	AA-3-3252025DUP	VL042190.D	27 Mar 2025 21:24		SY/MD	Ok,NS
21	Q1669-05	SSSG-B16-3-3262025	VL042191.D	27 Mar 2025 21:57	Need straight run	SY/MD	Not Ok
22	Q1669-07DL	SSSG-B16-1-3262025D	VL042192.D	27 Mar 2025 22:29		SY/MD	Ok,NS
23	Q1669-08	SSSG-B16-2-3262025	VL042193.D	27 Mar 2025 23:01	Need straight run	SY/MD	Not Ok
24	VIBLK	VIBLK	VL042194.D	27 Mar 2025 23:34		SY/MD	Ok
25	Q1669-01DL	IA-B9-3-3262025DL	VL042195.D	28 Mar 2025 00:06		SY/MD	Ok,NS
26	Q1669-01DUP	IA-B9-3-3262025DUP	VL042196.D	28 Mar 2025 00:44		SY/MD	Ok,NS
27	Q1669-05	SSSG-B16-3-3262025	VL042197.D	28 Mar 2025 01:20		SY/MD	Ok,NS
28	Q1669-07	SSSG-B16-1-3262025	VL042198.D	28 Mar 2025 01:57	Need 10X	SY/MD	Dilution
29	Q1669-08	SSSG-B16-2-3262025	VL042199.D	28 Mar 2025 02:33		SY/MD	Ok,NS

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL033125

Review By	Semsettin Yesilyurt	Review On	4/1/2025 8:03:30 AM		
Supervise By	Amit Patel	Supervise On	4/1/2025 1:18:11 PM		
SubDirectory	VL033125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042200.D	31 Mar 2025 08:09		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042201.D	31 Mar 2025 08:51		SY/MD	Ok,M
3	VL0331ABL01	VL0331ABL01	VL042202.D	31 Mar 2025 09:34		SY/MD	Ok
4	VL0331ABS01	VL0331ABS01	VL042203.D	31 Mar 2025 10:17		SY/MD	Ok,M
5	Q1669-06	SSSG-DUP-1-3262025	VL042204.D	31 Mar 2025 11:06	Need 4X	SY/MD	Dilution
6	Q1669-06DL	SSSG-DUP-1-3262025	VL042205.D	31 Mar 2025 11:52		SY/MD	Ok,M
7	Q1669-06DUP	SSSG-DUP-1-3262025	VL042206.D	31 Mar 2025 12:26		SY/MD	Ok,M
8	Q1649-01	SV1	VL042207.D	31 Mar 2025 13:05		SY/MD	Ok,M
9	Q1649-02	SV2	VL042208.D	31 Mar 2025 13:36		SY/MD	Ok,M
10	VIBLK	VIBLK	VL042209.D	31 Mar 2025 14:07		SY/MD	Ok

M : Manual Integration

CHEMTECH

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

CHEMTECH Project No. : _____

Client Contact Information	Bottle Order ID : **B2503004**	Courier : F GALDUN	1 of 2 COCs
Client ID : **GFEL01** Project ID : ~~97-34 69RD RD, Rego Park NY~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **FRANK GALDUN**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 223 W. 29TH ST. NY, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : **10 ~~Business days~~** **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV1	3/25/25	10:38	10:38	29	4	68	68	-30	-5.5	10503	10258	6 L	50	VL041954.D	1		1

FULL LIST NO TICS

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low) PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 3/5/25	Canisters Received by:	Date/Time:
Samples Relinquished by:	Date/Time: 3/26/25	Received by:	Date/Time: 3/26/25 1010
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2503004 - 2

CHEMTECH

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

CHEMTECH Project No. : _____

Client Contact Information	Bottle Order ID : **B2503004**	Courier : F GALDUN	2 of 2 COCs
Client ID : **GFEL01** Project ID : ~~97-34 65RD RD, Rego Park NY~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **FRANK GALDUN**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 223 W. 29TH ST. NY, NY		
City : **Lake Hiawatha**		Individual Certified	
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV2	3/25/25	9:09	11:24	30	8	68	68	-30	-9.2	10502	10439	6 L	50	VL041966.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low) PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 03/25/25	Canisters Received by:	Date/Time:	B2503004 - 7
Samples Relinquished by:	Date/Time: 3/26/25	Received by:	Date/Time: 3/26/25 1010	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech
~~SORCE~~
Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Field Sample Seal No.: Q1649
Date Broken: 3/26/2025
Military Time Seal Broken: 10:10:00
Case No.: 223 W. 29th St NY, NY
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1649-01	SV1		
Q1649-02	SV2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
32625	11:26 AM	Signature L. Carter	Signature	
		Printed Name L. Carter	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: A255971

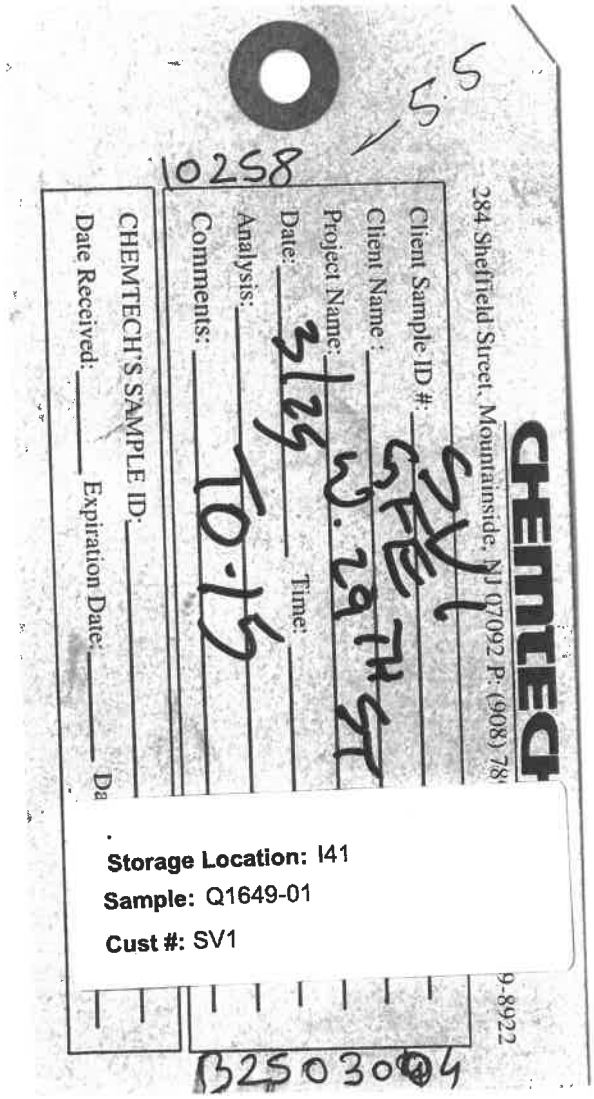
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
03/5/25	Q1482-04	10721	1.0		30		30X	Sy
03/06/25	Q1506-01	10054	12.6	-4.3				Sy
"	Q1506-02	10329	12.2	-5.1				Sy
03/07/25	Q1532-01	10303	12.4	-4.7				
	Q1532-02	10590	13.4	-2.7				
	Q1532-03	10279	12.6	-4.3				
	Q1532-04	10295	12.4	-4.7				
03/14/25	Q1533-01	10296	11.6	-6.3				Sy
	Q1533-02	10321	11.2	-7.1				
	Q1533-03	10410	12.2	-5.1				
	Q1533-04	10266	12.4	-4.7				
	Q1533-05	10153	12.8	-3.9				
03/14/25	Q1586-01	10448	11.0	-7.5				Sy
	Q1586-02	10609	10.8	-8.0				
	Q1586-03	10605	12.2	-5.1				
03/17/25	Q1586-01	10681	1.0		30		30X	Sy
03/26/25	Q1649-01	10258	12.0	-5.5			Sy	
	Q1649-02	10439	10.2	-9.2			<	Sy

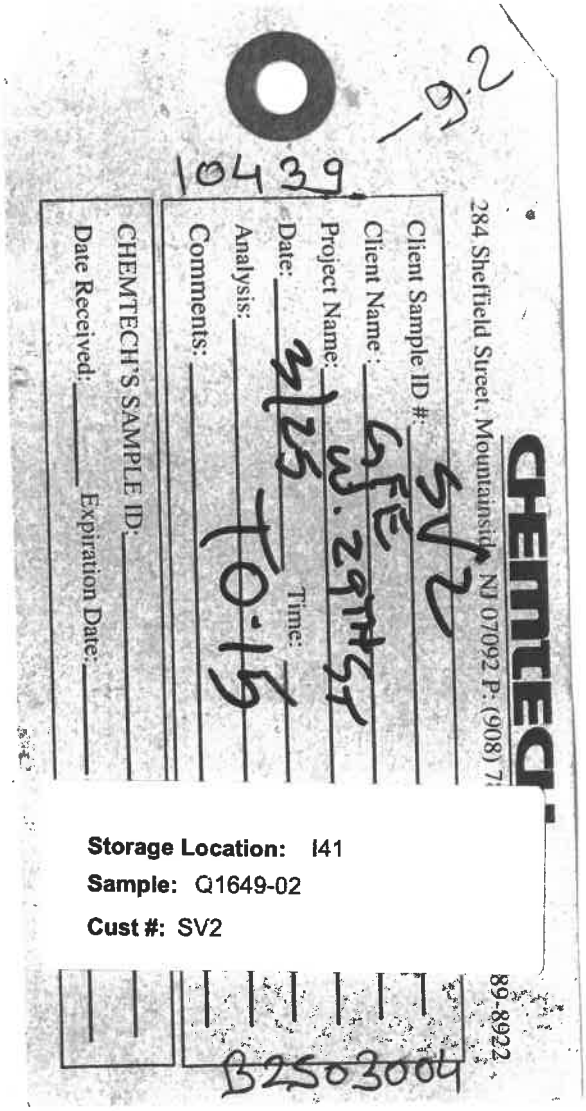
Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Process Report

Order ID : Q1649

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/26/2025	B2503004	Q1649-02	-9.2	10439	6 L	10502		C2501004	**VL041966.D** Seq :vl020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/26/2025	B2503004	Q1649-01	-5.5	10258	6 L	10503		C2501003	**VL041954.D** Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 78
Client Sample ID #: SV1 SFE
Client Name:
Project Name: 3125 W. 29TH ST
Date:
Time:
Analysis: TO-15
Comments:
CHEMTECH'S SAMPLE ID:
Date Received:
Expiration Date:
Da
10258
5-5
Storage Location: I41
Sample: Q1649-01
Cust #: SV1
9-8922
B2503004


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 7
Client Sample ID #: SV2 SFE
Client Name:
Project Name: 3125 W. 29TH ST
Date:
Time:
Analysis: TO-15
Comments:
CHEMTECH'S SAMPLE ID:
Date Received:
Expiration Date:
10439
9-2
Storage Location: I41
Sample: Q1649-02
Cust #: SV2
89-8922
B2503004