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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : REAC COMMODORE

TECHLAW CONSULTANTS, INC

14840 Conference Center Dr.

Suite #200

Chantily, VA - 20151

Phone No: 703-818-3205

ORDER ID : Q3195

ATTENTION : Jonathan Dziekan

Laboratory Certification ID # 20012

Table Of Contents for Q3195

1) VOLATILES DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 14

9) QC Data Summary For VOC-TCLVOA-10 19

- 9.1) Deuterated Monitoring Compound Summary 20
- 9.2) MS/MSD Summary 23
- 9.3) LCS/LCSD Summary 27
- 9.4) Method Blank Summary 33
- 9.5) GS/MS Tune Summary 36
- 9.6) Internal Standard Area and RT Summary 40

10) Sample Data 46

- 10.1) MOS-18-092225 47
- 10.2) MW-1-091725 63
- 10.3) MW-3-091525 80
- 10.4) MW-4-091625 97
- 10.5) MW-6-091625 112
- 10.6) MW-19D-092225 127
- 10.7) MW-19M-092325 143
- 10.8) MW-21M-091925 156
- 10.9) MW-22-091825 170
- 10.10) MW-23-092325 184
- 10.11) MW-24-091925 199
- 10.12) MW-26-091925 215
- 10.13) MW-26-091925-FD 229
- 10.14) MW-29-092325 243
- 10.15) MW-31S-091825 258
- 10.16) MW-31S-091825DL 275
- 10.17) MW-31D-091825 285
- 10.18) MW-31D-091825DL 302
- 10.19) MW-31D-091825-FD 314

10.20) MW-31D-091825-FDDL 331
10.21) MW-32S-091725 342
10.22) MW-33D-091725 356
10.23) RW-1-092425 372
10.24) EB-01-091925 386
10.25) EB-02-092225 399
10.26) FB-01-091925 412
10.27) FB-02-092225 425
10.28) TB-01-091525 438
11) Calibration Data Summary 451
11.1) Initial Calibration Data 452
11.1.1) VV092225 452
11.2) Continued Calibration Data 830
11.2.1) VV039168.D 830
11.2.2) VV039198.D 890
11.2.3) VV039221.D 950
12) QC Sample Data 1010
12.1) Tune Raw Data 1011
12.2) Method Blank Data 1015
12.3) LCS Data 1054
12.4) MS Data 1219
12.5) MSD Data 1274
13) Manual Integration 1329
14) Analytical Runlogs 1334
15) Standard Prep Logs 1347
16) Shipping Document 1437
16.1) Chain Of Custody 1438
16.2) ROC 1441
16.3) Lab Certificate 1442
16.4) Internal COC 1443

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

Cover Page

Order ID : Q3195

Project ID : REAC Commodore

Client : TechLaw Consultants, Inc

Lab Sample Number	Client Sample Number
Q3195-01	MOS-18-092225
Q3195-02	MW-1-091725
Q3195-03	MW-3-091525
Q3195-04	MW-4-091625
Q3195-05	MW-6-091625
Q3195-06	MW-19D-092225
Q3195-07	MW-19M-092325
Q3195-08	MW-21M-091925
Q3195-09	MW-22-091825
Q3195-10	MW-23-092325
Q3195-11	MW-24-091925
Q3195-12	MW-26-091925
Q3195-13	MW-26-091925-FD
Q3195-14	MW-29-092325
Q3195-15	MW-31S-091825
Q3195-16	MW-31D-091825
Q3195-17	MW-31D-091825-FD
Q3195-18	MW-32S-091725
Q3195-19	MW-33D-091725
Q3195-20	MW-33D-091725MS
Q3195-21	MW-33D-091725MS
Q3195-22	D RW-1-092425
Q3195-23	EB-01-091925
Q3195-24	EB-02-092225
Q3195-25	FB-01-091925
Q3195-26	FB-02-092225
Q3195-27	TB-01-091525

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 1:02 pm, Oct 30, 2025

Date: 10/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

TechLaw Consultants, Inc
Project Name: REAC Commodore
Project # N/A
Order ID # Q3195
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
27 Water samples were received on 09/25/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-TCLVOA-10 was based on method 8260D.

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

The MS {Q3195-20MS} with File ID: VV039237.D recoveries met the requirements for all compounds except for Toluene[117%] due to matrix interference.

The MSD recoveries met the requirements for all compounds.
The RPD were met for all analysis.

The Blank Spike for {VV0929WBS01} with File ID: VV039224.D met requirements for all compounds except for 1,2-Dibromoethane[111%], 4-Methyl-2-Pentanone[120%], Bromoform[118%], m/p-Xylenes[111%] and Toluene[111%] are is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane, Acetone, Methylene Chloride, Styrene, 1,2-Dibromo-3-Chloropropane are passing on Quadtratic Regression.

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

The Continuous Calibration File ID VV039168.D met the requirements except for Bromomethane is failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID VV039198.D met the requirements except for Acetone is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VV039221.D met the requirements except for Carbon Disulfide is failing marginally low therefore no corrective action taken.
The Tuning criteria met requirements.

The Tuning criteria met requirements.

Samples MW-4-091625 was diluted due to previous history for high contamination of analytes, so lab has analyzed sample at straight high dilution as a precaution.

Samples MW-31S-091825, MW-31D-091825 and MW-31D-091825-FD were diluted due to high concentrations.

E. Additional Comments:
This Data Package has been revised due to Data Package type changed.

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

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3195 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane, Acetone ,Methylene Chloride, Styrene, 1,2-Dibromo-3-Chloropropane are passing on Quadtratic Regression. The Continuous Calibration File ID VV039168.D met the requirements except for Bromomethane is failing marginally low therefore no corrective action taken. The Continuous Calibration File ID VV039198.D met the requirements except for Acetone is failing high but no positive hit in associate sample therefore no corrective action taken. The Continuous Calibration File ID VV039221.D met the requirements except for Carbon Disulfide is failing marginally low therefore no corrective action taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MS {Q3195-20MS} with File ID: VV039237.D recoveries met the requirements for all compounds except for Toluene[117%] due to matrix interference.			
	The Blank Spike for {VV0929WBS01} with File ID: VV039224.D met requirements for all compounds except for 1,2-Dibromoethane[111%], 4-Methyl-2-Pentanone[120%], Bromoform[118%], m/p-Xylenes[111%] and Toluene[111%] are is failing high but no positive hit in associate sample therefore no corrective action taken.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

This Data Package has been revised due to Data Package type changed.

Samples MW-4-091625 was diluted due to previous history for high contamination of analytes, so lab has analyzed sample at straight high dilution as a precaution.

Samples MW-31S-091825, MW-31D-091825 and MW-31D-091825-FD were diluted due to high concentrations.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 1:00 pm, Oct 30, 2025

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3195

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

QA Review Signature: SOHIL JODHANI **Date:** 10/30/2025

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

LAB CHRONICLE

OrderID:	Q3195	**OrderDate:**	9/25/2025 10:11:00 AM
Client:	TechLaw Consultants, Inc	**Project:**	REAC Commodore
Contact:	Jonathan Dziekan	**Location:**	VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3195-01	**MOS-18-092225**	**Water**			**09/22/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/26/25	
Q3195-02	**MW-1-091725**	**Water**			**09/17/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/25/25	
Q3195-03	**MW-3-091525**	**Water**			**09/15/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/26/25	
Q3195-04	**MW-4-091625**	**Water**			**09/16/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/26/25	
Q3195-05	**MW-6-091625**	**Water**			**09/16/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/26/25	
Q3195-06	**MW-19D-092225**	**Water**			**09/22/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/26/25	
Q3195-07	**MW-19M-092325**	**Water**			**09/23/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/29/25	
Q3195-08	**MW-21M-091925**	**Water**			**09/19/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/26/25	
Q3195-09	**MW-22-091825**	**Water**			**09/18/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/25/25	
Q3195-10	**MW-23-092325**	**Water**			**09/23/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/25/25	
Q3195-11	**MW-24-091925**	**Water**			**09/19/25**			**09/25/25**
			VOC-TCLVOA-10	8260-Low			09/25/25	
Q3195-12	**MW-26-091925**	**Water**			**09/19/25**			**09/25/25**

LAB CHRONICLE

			VOC-TCLVOA-10	8260-Low		09/26/25	
Q3195-13	**MW-26-091925-FD**	**Water**			**09/19/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/26/25	
Q3195-14	**MW-29-092325**	**Water**			**09/23/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/26/25	
Q3195-15	**MW-31S-091825**	**Water**			**09/18/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/26/25	
Q3195-15DL	**MW-31S-091825DL**	**Water**			**09/18/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/29/25	
Q3195-16	**MW-31D-091825**	**Water**			**09/18/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/26/25	
Q3195-16DL	**MW-31D-091825DL**	**Water**			**09/18/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/29/25	
Q3195-17	**MW-31D-091825-FD**	**Water**			**09/18/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/26/25	
Q3195-17DL	**MW-31D-091825-FDDL**	**Water**			**09/18/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/29/25	
Q3195-18	**MW-32S-091725**	**Water**			**09/17/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/29/25	
Q3195-19	**MW-33D-091725**	**Water**			**09/17/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/29/25	
Q3195-22	**RW-1-092425**	**Water**			**09/24/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/25/25	
Q3195-23	**EB-01-091925**	**Water**			**09/19/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/25/25	
Q3195-24	**EB-02-092225**	**Water**			**09/22/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/26/25	
Q3195-25	**FB-01-091925**	**Water**			**09/19/25**		**09/25/25**

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

LAB CHRONICLE

			VOC-TCLVOA-10	8260-Low		09/25/25	
Q3195-26	**FB-02-092225**	**Water**			**09/22/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/25/25	
Q3195-27	**TB-01-091525**	**Water**			**09/15/25**		**09/25/25**
			VOC-TCLVOA-10	8260-Low		09/25/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**MOS-18-092225**							
Q3195-01	MOS-18-092225	Water	Dichlorodifluoromethane	9.70		0.22	1.00	ug/L
Q3195-01	MOS-18-092225	Water	Trichlorofluoromethane	0.49	J	0.33	1.00	ug/L
Q3195-01	MOS-18-092225	Water	1,1,2-Trichlorotrifluoroethane	2.50		0.25	1.00	ug/L
Q3195-01	MOS-18-092225	Water	cis-1,2-Dichloroethene	2.80		0.19	1.00	ug/L
Q3195-01	MOS-18-092225	Water	Trichloroethene	2.20		0.090	1.00	ug/L
Q3195-01	MOS-18-092225	Water	Tetrachloroethene	32.7		0.23	1.00	ug/L
			Total Voc :	50.4				
			Total Concentration:	50.4				
Client ID:	**MW-1-091725**							
Q3195-02	MW-1-091725	Water	Vinyl Chloride	0.26	J	0.26	1.00	ug/L
Q3195-02	MW-1-091725	Water	1,1,2-Trichlorotrifluoroethane	0.76	J	0.25	1.00	ug/L
Q3195-02	MW-1-091725	Water	1,1-Dichloroethene	5.50		0.23	1.00	ug/L
Q3195-02	MW-1-091725	Water	1,1-Dichloroethane	0.40	J	0.23	1.00	ug/L
Q3195-02	MW-1-091725	Water	cis-1,2-Dichloroethene	16.2		0.19	1.00	ug/L
Q3195-02	MW-1-091725	Water	1,1,1-Trichloroethane	2.10		0.20	1.00	ug/L
Q3195-02	MW-1-091725	Water	Trichloroethene	41.4		0.090	1.00	ug/L
			Total Voc :	66.6				
			Total Concentration:	66.6				
Client ID:	**MW-3-091525**							
Q3195-03	MW-3-091525	Water	Vinyl Chloride	0.69	J	0.26	1.00	ug/L
Q3195-03	MW-3-091525	Water	1,1-Dichloroethene	2.00		0.23	1.00	ug/L
Q3195-03	MW-3-091525	Water	trans-1,2-Dichloroethene	0.60	J	0.23	1.00	ug/L
Q3195-03	MW-3-091525	Water	1,1-Dichloroethane	0.68	J	0.23	1.00	ug/L
Q3195-03	MW-3-091525	Water	cis-1,2-Dichloroethene	70.5		0.19	1.00	ug/L
Q3195-03	MW-3-091525	Water	Trichloroethene	48.6		0.090	1.00	ug/L
			Total Voc :	123				
			Total Concentration:	123				
Client ID:	**MW-4-091625**							
Q3195-04	MW-4-091625	Water	1,1-Dichloroethene	150		23.0	100	ug/L
Q3195-04	MW-4-091625	Water	cis-1,2-Dichloroethene	1600		19.0	100	ug/L
Q3195-04	MW-4-091625	Water	Trichloroethene	9500		9.30	100	ug/L
			Total Voc :	11300				
			Total Concentration:	11300				
Client ID:	**MW-6-091625**							
Q3195-05	MW-6-091625	Water	1,1,2-Trichlorotrifluoroethane	0.43	J	0.25	1.00	ug/L
Q3195-05	MW-6-091625	Water	1,1-Dichloroethane	0.62	J	0.23	1.00	ug/L
Q3195-05	MW-6-091625	Water	cis-1,2-Dichloroethene	12.0		0.19	1.00	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3195-05	MW-6-091625	Water	Trichloroethene	6.00		0.090	1.00	ug/L
			Total Voc :	19.1				
			Total Concentration:	19.1				
Client ID:	**MW-19D-092225**							
Q3195-06	MW-19D-092225	Water	Dichlorodifluoromethane	6.00		0.22	1.00	ug/L
Q3195-06	MW-19D-092225	Water	1,1,2-Trichlorotrifluoroethane	7.70		0.25	1.00	ug/L
Q3195-06	MW-19D-092225	Water	cis-1,2-Dichloroethene	0.50	J	0.19	1.00	ug/L
Q3195-06	MW-19D-092225	Water	Chloroform	0.65	J	0.25	1.00	ug/L
Q3195-06	MW-19D-092225	Water	Trichloroethene	3.20		0.090	1.00	ug/L
Q3195-06	MW-19D-092225	Water	Tetrachloroethene	0.30	J	0.23	1.00	ug/L
			Total Voc :	18.4				
			Total Concentration:	18.4				
Client ID:	**MW-21M-091925**							
Q3195-08	MW-21M-091925	Water	cis-1,2-Dichloroethene	1.80		0.19	1.00	ug/L
Q3195-08	MW-21M-091925	Water	Trichloroethene	2.10		0.090	1.00	ug/L
			Total Voc :	3.90				
			Total Concentration:	3.90				
Client ID:	**MW-22-091825**							
Q3195-09	MW-22-091825	Water	Carbon Tetrachloride	1.80		0.25	1.00	ug/L
Q3195-09	MW-22-091825	Water	Chloroform	0.98	J	0.25	1.00	ug/L
			Total Voc :	2.78				
			Total Concentration:	2.78				
Client ID:	**MW-23-092325**							
Q3195-10	MW-23-092325	Water	1,1,2-Trichlorotrifluoroethane	14.3		0.25	1.00	ug/L
Q3195-10	MW-23-092325	Water	1,1-Dichloroethene	0.63	J	0.23	1.00	ug/L
Q3195-10	MW-23-092325	Water	Trichloroethene	2.60		0.090	1.00	ug/L
			Total Voc :	17.5				
Q3195-10	MW-23-092325	Water	Ethane, 1,2-dichloro-1,1,2-triflu *	5.50	J	0	0	ug/L
			Total Tics :	5.50				
			Total Concentration:	23.0				
Client ID:	**MW-24-091925**							
Q3195-11	MW-24-091925	Water	Dichlorodifluoromethane	1.10		0.22	1.00	ug/L
Q3195-11	MW-24-091925	Water	1,1,2-Trichlorotrifluoroethane	1.10		0.25	1.00	ug/L
Q3195-11	MW-24-091925	Water	Chloroform	0.35	J	0.25	1.00	ug/L
Q3195-11	MW-24-091925	Water	Trichloroethene	1.00		0.090	1.00	ug/L
Q3195-11	MW-24-091925	Water	Tetrachloroethene	0.34	J	0.23	1.00	ug/L
			Total Voc :	3.89				
			Total Concentration:	3.89				
Client ID:	**MW-26-091925**							
Q3195-12	MW-26-091925	Water	Chloroform	1.20		0.25	1.00	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Voc :		1.20				
			Total Concentration:		1.20				
Client ID:	**MW-26-091925-FD**								
Q3195-13	MW-26-091925-FD	Water	Chloroform		1.10		0.25	1.00	ug/L
			Total Voc :		1.10				
			Total Concentration:		1.10				
Client ID:	**MW-29-092325**								
Q3195-14	MW-29-092325	Water	1,1,2-Trichlorotrifluoroethane		0.31	J	0.25	1.00	ug/L
Q3195-14	MW-29-092325	Water	1,1-Dichloroethene		0.36	J	0.23	1.00	ug/L
Q3195-14	MW-29-092325	Water	cis-1,2-Dichloroethene		1.80		0.19	1.00	ug/L
Q3195-14	MW-29-092325	Water	Trichloroethene		2.90		0.090	1.00	ug/L
			Total Voc :		5.37				
			Total Concentration:		5.37				
Client ID:	**MW-31S-091825**								
Q3195-15	MW-31S-091825	Water	Dichlorodifluoromethane		2.00		0.22	1.00	ug/L
Q3195-15	MW-31S-091825	Water	1,1,2-Trichlorotrifluoroethane		280	E	0.25	1.00	ug/L
Q3195-15	MW-31S-091825	Water	1,1-Dichloroethene		2.40		0.23	1.00	ug/L
Q3195-15	MW-31S-091825	Water	1,1-Dichloroethane		2.70		0.23	1.00	ug/L
Q3195-15	MW-31S-091825	Water	1,1,1-Trichloroethane		2.20		0.20	1.00	ug/L
Q3195-15	MW-31S-091825	Water	Trichloroethene		28.3		0.090	1.00	ug/L
			Total Voc :		318				
Q3195-15	MW-31S-091825	Water	Ethane, 1,2-dichloro-1,1,2-trifl	*	8.70	J	0	0	ug/L
Q3195-15	MW-31S-091825	Water	1,4-Dioxane	*	40.1	J	6.90	100	ug/L
			Total Tics :		48.8				
			Total Concentration:		366				
Client ID:	**MW-31S-091825DL**								
Q3195-15DL	MW-31S-091825DI	Water	1,1,2-Trichlorotrifluoroethane		220	D	1.30	5.00	ug/L
Q3195-15DL	MW-31S-091825DI	Water	Trichloroethene		25.1	D	0.47	5.00	ug/L
			Total Voc :		245				
			Total Concentration:		245				
Client ID:	**MW-31D-091825**								
Q3195-16	MW-31D-091825	Water	Dichlorodifluoromethane		20.3		0.22	1.00	ug/L
Q3195-16	MW-31D-091825	Water	1,1,2-Trichlorotrifluoroethane		2300	E	0.25	1.00	ug/L
Q3195-16	MW-31D-091825	Water	1,1-Dichloroethene		17.2		0.23	1.00	ug/L
Q3195-16	MW-31D-091825	Water	1,1-Dichloroethane		8.90		0.23	1.00	ug/L
Q3195-16	MW-31D-091825	Water	cis-1,2-Dichloroethene		0.79	J	0.19	1.00	ug/L
Q3195-16	MW-31D-091825	Water	1,1,1-Trichloroethane		8.20		0.20	1.00	ug/L
Q3195-16	MW-31D-091825	Water	Trichloroethene		270	E	0.090	1.00	ug/L
Q3195-16	MW-31D-091825	Water	Tetrachloroethene		0.25	J	0.23	1.00	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Voc :	2630				
Q3195-16	MW-31D-091825	Water	Ethane, 1,2-dichloro-1,1,2-triflu *	190	J	0	0	ug/L
			Total Tics :	190				
			Total Concentration:	2820				
Client ID:	**MW-31D-091825DL**							
Q3195-16DL	MW-31D-091825D	Water	Dichlorodifluoromethane	19.9	JD	8.80	40.0	ug/L
Q3195-16DL	MW-31D-091825D	Water	1,1,2-Trichlorotrifluoroethane	2400	D	10.0	40.0	ug/L
Q3195-16DL	MW-31D-091825D	Water	1,1-Dichloroethene	20.7	JD	9.20	40.0	ug/L
Q3195-16DL	MW-31D-091825D	Water	1,1-Dichloroethane	9.80	JD	9.20	40.0	ug/L
Q3195-16DL	MW-31D-091825D	Water	Trichloroethene	250	D	3.70	40.0	ug/L
			Total Voc :	2700				
			Total Concentration:	2700				
Client ID:	**MW-31D-091825-FD**							
Q3195-17	MW-31D-091825-F	Water	Dichlorodifluoromethane	31.6		0.22	1.00	ug/L
Q3195-17	MW-31D-091825-F	Water	1,1,2-Trichlorotrifluoroethane	3500	E	0.25	1.00	ug/L
Q3195-17	MW-31D-091825-F	Water	1,1-Dichloroethene	26.8		0.23	1.00	ug/L
Q3195-17	MW-31D-091825-F	Water	1,1-Dichloroethane	13.7		0.23	1.00	ug/L
Q3195-17	MW-31D-091825-F	Water	cis-1,2-Dichloroethene	1.30		0.19	1.00	ug/L
Q3195-17	MW-31D-091825-F	Water	1,1,1-Trichloroethane	12.8		0.20	1.00	ug/L
Q3195-17	MW-31D-091825-F	Water	Trichloroethene	420	E	0.090	1.00	ug/L
Q3195-17	MW-31D-091825-F	Water	Tetrachloroethene	0.41	J	0.23	1.00	ug/L
			Total Voc :	4010				
Q3195-17	MW-31D-091825-F	Water	Ethane, 1,2-dichloro-1,1,2-triflu *	310	J	0	0	ug/L
			Total Tics :	310				
			Total Concentration:	4320				
Client ID:	**MW-31D-091825-FDDL**							
Q3195-17DL	MW-31D-091825-F	Water	Dichlorodifluoromethane	22.6	JD	11.0	50.0	ug/L
Q3195-17DL	MW-31D-091825-F	Water	1,1,2-Trichlorotrifluoroethane	2400	D	12.5	50.0	ug/L
Q3195-17DL	MW-31D-091825-F	Water	Trichloroethene	250	D	4.70	50.0	ug/L
			Total Voc :	2670				
			Total Concentration:	2670				
Client ID:	**MW-32S-091725**							
Q3195-18	MW-32S-091725	Water	Trichloroethene	0.52	J	0.090	1.00	ug/L
Q3195-18	MW-32S-091725	Water	Tetrachloroethene	0.80	J	0.23	1.00	ug/L
			Total Voc :	1.32				
			Total Concentration:	1.32				
Client ID:	**MW-33D-091725**							
Q3195-19	MW-33D-091725	Water	Dichlorodifluoromethane	7.90		0.22	1.00	ug/L
Q3195-19	MW-33D-091725	Water	1,1,2-Trichlorotrifluoroethane	2.10		0.25	1.00	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3195-19	MW-33D-091725	Water	cis-1,2-Dichloroethene	1.30		0.19	1.00	ug/L
Q3195-19	MW-33D-091725	Water	Trichloroethene	5.50		0.090	1.00	ug/L
Q3195-19	MW-33D-091725	Water	Tetrachloroethene	1.40		0.23	1.00	ug/L
			Total Voc :	18.2				
			Total Concentration:	18.2				
Client ID:	**RW-1-092425**							
Q3195-22	RW-1-092425	Water	Trichloroethene	0.64	J	0.090	1.00	ug/L
			Total Voc :	0.64				
			Total Concentration:	0.64				

QC SUMMARY

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

Surrogate Summary

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3195-01	MOS-18-092225	1,2-Dichloroethane-d4	50	59.6	119		74	125
		Dibromofluoromethane	50	58.1	116		75	124
		Toluene-d8	50	47.1	94		86	113
		4-Bromofluorobenzene	50	43.9	88		77	121
Q3195-02	MW-1-091725	1,2-Dichloroethane-d4	50	55.1	110		74	125
		Dibromofluoromethane	50	51.0	102		75	124
		Toluene-d8	50	46.4	93		86	113
		4-Bromofluorobenzene	50	44.1	88		77	121
Q3195-03	MW-3-091525	1,2-Dichloroethane-d4	50	56.4	113		74	125
		Dibromofluoromethane	50	53.0	106		75	124
		Toluene-d8	50	46.8	94		86	113
		4-Bromofluorobenzene	50	44.5	89		77	121
Q3195-04	MW-4-091625	1,2-Dichloroethane-d4	50	56.0	112		74	125
		Dibromofluoromethane	50	52.9	106		75	124
		Toluene-d8	50	46.2	92		86	113
		4-Bromofluorobenzene	50	44.1	88		77	121
Q3195-05	MW-6-091625	1,2-Dichloroethane-d4	50	60.5	121		74	125
		Dibromofluoromethane	50	56.6	113		75	124
		Toluene-d8	50	46.3	93		86	113
		4-Bromofluorobenzene	50	43.5	87		77	121
Q3195-06	MW-19D-092225	1,2-Dichloroethane-d4	50	61.9	124		74	125
		Dibromofluoromethane	50	57.6	115		75	124
		Toluene-d8	50	47.3	95		86	113
		4-Bromofluorobenzene	50	43.8	88		77	121
Q3195-07	MW-19M-092325	1,2-Dichloroethane-d4	50	55.6	111		74	125
		Dibromofluoromethane	50	56.2	112		75	124
		Toluene-d8	50	46.0	92		86	113
		4-Bromofluorobenzene	50	45.0	90		77	121
Q3195-08	MW-21M-091925	1,2-Dichloroethane-d4	50	60.9	122		74	125
		Dibromofluoromethane	50	55.1	110		75	124
		Toluene-d8	50	47.3	95		86	113
		4-Bromofluorobenzene	50	43.8	88		77	121
Q3195-09	MW-22-091825	1,2-Dichloroethane-d4	50	56.4	113		74	125
		Dibromofluoromethane	50	51.0	102		75	124
		Toluene-d8	50	46.5	93		86	113
		4-Bromofluorobenzene	50	44.3	89		77	121
Q3195-10	MW-23-092325	1,2-Dichloroethane-d4	50	55.5	111		74	125
		Dibromofluoromethane	50	50.1	100		75	124
		Toluene-d8	50	46.5	93		86	113
		4-Bromofluorobenzene	50	43.6	87		77	121
Q3195-11	MW-24-091925	1,2-Dichloroethane-d4	50	55.6	111		74	125
		Dibromofluoromethane	50	51.5	103		75	124
		Toluene-d8	50	46.2	92		86	113
		4-Bromofluorobenzene	50	44.5	89		77	121
Q3195-12	MW-26-091925	1,2-Dichloroethane-d4	50	56.0	112		74	125
		Dibromofluoromethane	50	52.7	105		75	124
		Toluene-d8	50	47.0	94		86	113
		4-Bromofluorobenzene	50	44.9	90		77	121
Q3195-13	MW-26-091925-FD	1,2-Dichloroethane-d4	50	60.7	121		74	125
		Dibromofluoromethane	50	56.1	112		75	124

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

Surrogate Summary

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3195-13	MW-26-091925-FD	Toluene-d8	50	47.7	95		86	113
		4-Bromofluorobenzene	50	44.3	89		77	121
Q3195-14	MW-29-092325	1,2-Dichloroethane-d4	50	61.8	124		74	125
		Dibromofluoromethane	50	56.0	112		75	124
		Toluene-d8	50	46.3	93		86	113
		4-Bromofluorobenzene	50	43.7	87		77	121
Q3195-15	MW-31S-091825	1,2-Dichloroethane-d4	50	62.3	125		74	125
		Dibromofluoromethane	50	57.3	115		75	124
		Toluene-d8	50	48.4	97		86	113
		4-Bromofluorobenzene	50	44.4	89		77	121
Q3195-15DL	MW-31S-091825DL	1,2-Dichloroethane-d4	50	51.6	103		74	125
		Dibromofluoromethane	50	52.3	105		75	124
		Toluene-d8	50	45.0	90		86	113
		4-Bromofluorobenzene	50	44.6	89		77	121
Q3195-16	MW-31D-091825	1,2-Dichloroethane-d4	50	59.0	118		74	125
		Dibromofluoromethane	50	54.7	109		75	124
		Toluene-d8	50	48.2	96		86	113
		4-Bromofluorobenzene	50	43.9	88		77	121
Q3195-16DL	MW-31D-091825DL	1,2-Dichloroethane-d4	50	56.9	114		74	125
		Dibromofluoromethane	50	55.8	112		75	124
		Toluene-d8	50	45.2	90		86	113
		4-Bromofluorobenzene	50	44.8	90		77	121
Q3195-17	MW-31D-091825-FD	1,2-Dichloroethane-d4	50	61.6	123		74	125
		Dibromofluoromethane	50	58.4	117		75	124
		Toluene-d8	50	49.2	98		86	113
		4-Bromofluorobenzene	50	43.3	87		77	121
Q3195-17DL	MW-31D-091825-FDDL	1,2-Dichloroethane-d4	50	56.8	113		74	125
		Dibromofluoromethane	50	56.6	113		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	45.2	90		77	121
Q3195-18	MW-32S-091725	1,2-Dichloroethane-d4	50	54.0	108		74	125
		Dibromofluoromethane	50	54.6	109		75	124
		Toluene-d8	50	45.7	91		86	113
		4-Bromofluorobenzene	50	45.8	92		77	121
Q3195-19	MW-33D-091725	1,2-Dichloroethane-d4	50	55.5	111		74	125
		Dibromofluoromethane	50	54.2	108		75	124
		Toluene-d8	50	45.4	91		86	113
		4-Bromofluorobenzene	50	44.9	90		77	121
Q3195-20MS	MW-33D-091725MS	1,2-Dichloroethane-d4	50	41.7	83		74	125
		Dibromofluoromethane	50	51.7	103		75	124
		Toluene-d8	50	49.3	99		86	113
		4-Bromofluorobenzene	50	57.1	114		77	121
Q3195-21MSD	MW-33D-091725MSD	1,2-Dichloroethane-d4	50	43.2	86		74	125
		Dibromofluoromethane	50	51.2	102		75	124
		Toluene-d8	50	48.8	98		86	113
		4-Bromofluorobenzene	50	56.8	114		77	121
Q3195-22	RW-1-092425	1,2-Dichloroethane-d4	50	55.5	111		74	125
		Dibromofluoromethane	50	49.4	99		75	124
		Toluene-d8	50	45.5	91		86	113
		4-Bromofluorobenzene	50	42.8	86		77	121

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

Surrogate Summary

SDG No.: Q3195

Client: TechLaw Consultants, Inc

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3195-23	EB-01-091925	1,2-Dichloroethane-d4	50	53.5	107		74	125
		Dibromofluoromethane	50	50.7	101		75	124
		Toluene-d8	50	45.3	91		86	113
		4-Bromofluorobenzene	50	43.7	87		77	121
Q3195-24	EB-02-092225	1,2-Dichloroethane-d4	50	54.6	109		74	125
		Dibromofluoromethane	50	50.9	102		75	124
		Toluene-d8	50	45.7	91		86	113
		4-Bromofluorobenzene	50	44.5	89		77	121
Q3195-25	FB-01-091925	1,2-Dichloroethane-d4	50	54.0	108		74	125
		Dibromofluoromethane	50	50.0	100		75	124
		Toluene-d8	50	46.1	92		86	113
		4-Bromofluorobenzene	50	45.0	90		77	121
Q3195-26	FB-02-092225	1,2-Dichloroethane-d4	50	54.1	108		74	125
		Dibromofluoromethane	50	49.9	100		75	124
		Toluene-d8	50	46.0	92		86	113
		4-Bromofluorobenzene	50	43.9	88		77	121
Q3195-27	TB-01-091525	1,2-Dichloroethane-d4	50	54.5	109		74	125
		Dibromofluoromethane	50	50.8	102		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	44.0	88		77	121
VV0925WBL01	VV0925WBL01	1,2-Dichloroethane-d4	50	60.1	120		74	125
		Dibromofluoromethane	50	53.3	107		75	124
		Toluene-d8	50	47.3	95		86	113
		4-Bromofluorobenzene	50	44.1	88		77	121
VV0925WBS01	VV0925WBS01	1,2-Dichloroethane-d4	50	45.1	90		74	125
		Dibromofluoromethane	50	47.8	96		75	124
		Toluene-d8	50	47.9	96		86	113
		4-Bromofluorobenzene	50	51.2	102		77	121
VV0926WBL01	VV0926WBL01	1,2-Dichloroethane-d4	50	56.4	113		74	125
		Dibromofluoromethane	50	51.0	102		75	124
		Toluene-d8	50	46.3	93		86	113
		4-Bromofluorobenzene	50	45.7	91		77	121
VV0926WBS01	VV0926WBS01	1,2-Dichloroethane-d4	50	46.9	94		74	125
		Dibromofluoromethane	50	52.3	105		75	124
		Toluene-d8	50	50.2	100		86	113
		4-Bromofluorobenzene	50	55.4	111		77	121
VV0929WBL01	VV0929WBL01	1,2-Dichloroethane-d4	50	54.8	110		74	125
		Dibromofluoromethane	50	54.5	109		75	124
		Toluene-d8	50	45.7	91		86	113
		4-Bromofluorobenzene	50	45.6	91		77	121
VV0929WBS01	VV0929WBS01	1,2-Dichloroethane-d4	50	42.8	86		74	125
		Dibromofluoromethane	50	50.2	100		75	124
		Toluene-d8	50	47.1	94		86	113
		4-Bromofluorobenzene	50	52.7	105		77	121

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3195 **Analytical Method:** SW8260-Low

Client: TechLaw Consultants, Inc **Datafile :** VV039237.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q3195-20MS		**Client Sample ID : MW-33D-091725MS**									
Dichlorodifluoromethane	50	7.90	49.4	ug/L	83				73	120	
Chloromethane	50	0	43.1	ug/L	86				58	133	
Vinyl chloride	50	0	45.0	ug/L	90				69	125	
Bromomethane	50	0	44.9	ug/L	90				28	165	
Chloroethane	50	0	49.0	ug/L	98				70	141	
Trichlorofluoromethane	50	0	47.9	ug/L	96				72	124	
1,1,2-Trichlorotrifluoroethane	50	2.10	49.5	ug/L	95				75	117	
1,1-Dichloroethene	50	0	48.7	ug/L	97				53	162	
Acetone	250	0	200	ug/L	80				44	150	
Carbon disulfide	50	0	42.1	ug/L	84				44	135	
Methyl tert-butyl Ether	50	0	49.8	ug/L	100				82	133	
Methyl Acetate	50	0	52.5	ug/L	105				76	138	
Methylene Chloride	50	0	54.1	ug/L	108				79	115	
trans-1,2-Dichloroethene	50	0	48.3	ug/L	97				76	118	
1,1-Dichloroethane	50	0	46.1	ug/L	92				78	122	
Cyclohexane	50	0	40.7	ug/L	81				71	119	
2-Butanone	250	0	240	ug/L	96				67	137	
Carbon Tetrachloride	50	0	52.3	ug/L	105				66	133	
cis-1,2-Dichloroethene	50	1.30	50.1	ug/L	98				82	124	
Bromochloromethane	50	0	47.9	ug/L	96				72	130	
Chloroform	50	0	46.4	ug/L	93				83	119	
1,1,1-Trichloroethane	50	0	46.6	ug/L	93				83	117	
Methylcyclohexane	50	0	49.1	ug/L	98				64	120	
Benzene	50	0	53.2	ug/L	106				81	128	
1,2-Dichloroethane	50	0	51.6	ug/L	103				76	120	
Trichloroethene	50	5.50	63.2	ug/L	115				28	175	
1,2-Dichloropropane	50	0	55.8	ug/L	112				85	116	
Bromodichloromethane	50	0	53.4	ug/L	107				54	157	
4-Methyl-2-Pentanone	250	0	300	ug/L	120				72	137	
Toluene	50	0	58.6	ug/L	117	*			85	115	
t-1,3-Dichloropropene	50	0	57.0	ug/L	114				60	141	
cis-1,3-Dichloropropene	50	0	51.7	ug/L	103				36	161	
1,1,2-Trichloroethane	50	0	55.7	ug/L	111				27	175	
2-Hexanone	250	0	280	ug/L	112				75	131	
Dibromochloromethane	50	0	57.6	ug/L	115				59	164	
1,2-Dibromoethane	50	0	58.7	ug/L	117				85	119	
Tetrachloroethene	50	1.40	55.4	ug/L	108				48	153	
Chlorobenzene	50	0	53.6	ug/L	107				85	114	
Ethyl Benzene	50	0	58.4	ug/L	117				81	128	
m/p-Xylenes	100	0	120	ug/L	120				69	129	
o-Xylene	50	0	62.1	ug/L	124				75	127	
Styrene	50	0	55.9	ug/L	112				84	128	
Bromoform	50	0	60.7	ug/L	121				73	147	
Isopropylbenzene	50	0	52.4	ug/L	105				76	121	
1,1,2,2-Tetrachloroethane	50	0	46.5	ug/L	93				81	131	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3195 **Analytical Method:** SW8260-Low

Client: TechLaw Consultants, Inc **Datafile :** VV039237.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	51.3	ug/L	103				84	110	
1,4-Dichlorobenzene	50	0	49.3	ug/L	99				81	111	
1,2-Dichlorobenzene	50	0	50.9	ug/L	102				82	113	
1,2-Dibromo-3-Chloropropane	50	0	53.6	ug/L	107				79	137	
1,2,4-Trichlorobenzene	50	0	52.8	ug/L	106				73	120	
1,2,3-Trichlorobenzene	50	0	53.4	ug/L	107				75	119	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3195 **Analytical Method:** SW8260-Low

Client: TechLaw Consultants, Inc **Datafile :** VV039238.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q3195-21MSD		**Client Sample ID : MW-33D-091725MSD**									
Dichlorodifluoromethane	50	7.90	47.8	ug/L	80		4		73	120	20
Chloromethane	50	0	40.7	ug/L	81		6		58	133	20
Vinyl chloride	50	0	43.1	ug/L	86		4		69	125	20
Bromomethane	50	0	44.7	ug/L	89		0		28	165	20
Chloroethane	50	0	46.0	ug/L	92		6		70	141	20
Trichlorofluoromethane	50	0	44.9	ug/L	90		6		72	124	20
1,1,2-Trichlorotrifluoroethane	50	2.10	47.3	ug/L	90		5		75	117	20
1,1-Dichloroethene	50	0	45.7	ug/L	91		6		53	162	20
Acetone	250	0	190	ug/L	76		5		44	150	20
Carbon disulfide	50	0	39.6	ug/L	79		6		44	135	20
Methyl tert-butyl Ether	50	0	47.3	ug/L	95		5		82	133	20
Methyl Acetate	50	0	47.9	ug/L	96		9		76	138	20
Methylene Chloride	50	0	50.1	ug/L	100		8		79	115	20
trans-1,2-Dichloroethene	50	0	45.7	ug/L	91		6		76	118	20
1,1-Dichloroethane	50	0	43.2	ug/L	86		6		78	122	20
Cyclohexane	50	0	38.8	ug/L	78		5		71	119	20
2-Butanone	250	0	220	ug/L	88		9		67	137	20
Carbon Tetrachloride	50	0	47.4	ug/L	95		10		66	133	20
cis-1,2-Dichloroethene	50	1.30	47.9	ug/L	93		5		82	124	20
Bromochloromethane	50	0	45.1	ug/L	90		6		72	130	20
Chloroform	50	0	43.0	ug/L	86		8		83	119	20
1,1,1-Trichloroethane	50	0	43.6	ug/L	87		7		83	117	20
Methylcyclohexane	50	0	45.7	ug/L	91		7		64	120	20
Benzene	50	0	49.1	ug/L	98		8		81	128	20
1,2-Dichloroethane	50	0	47.1	ug/L	94		9		76	120	20
Trichloroethene	50	5.50	58.2	ug/L	105		9		28	175	20
1,2-Dichloropropane	50	0	50.6	ug/L	101		10		85	116	20
Bromodichloromethane	50	0	48.4	ug/L	97		10		54	157	20
4-Methyl-2-Pentanone	250	0	270	ug/L	108		11		72	137	20
Toluene	50	0	53.7	ug/L	107		9		85	115	20
t-1,3-Dichloropropene	50	0	53.0	ug/L	106		7		60	141	20
cis-1,3-Dichloropropene	50	0	48.2	ug/L	96		7		36	161	20
1,1,2-Trichloroethane	50	0	51.5	ug/L	103		8		27	175	20
2-Hexanone	250	0	250	ug/L	100		11		75	131	20
Dibromochloromethane	50	0	52.6	ug/L	105		9		59	164	20
1,2-Dibromoethane	50	0	53.1	ug/L	106		10		85	119	20
Tetrachloroethene	50	1.40	51.7	ug/L	101		7		48	153	20
Chlorobenzene	50	0	50.3	ug/L	101		6		85	114	20
Ethyl Benzene	50	0	55.1	ug/L	110		6		81	128	20
m/p-Xylenes	100	0	120	ug/L	120		0		69	129	20
o-Xylene	50	0	58.2	ug/L	116		6		75	127	20
Styrene	50	0	52.1	ug/L	104		7		84	128	20
Bromoform	50	0	57.1	ug/L	114		6		73	147	20
Isopropylbenzene	50	0	49.8	ug/L	100		5		76	121	20
1,1,2,2-Tetrachloroethane	50	0	43.4	ug/L	87		7		81	131	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3195 **Analytical Method:** SW8260-Low

Client: TechLaw Consultants, Inc **Datafile :** VV039238.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	48.3	ug/L	97		6		84	110	20
1,4-Dichlorobenzene	50	0	45.8	ug/L	92		7		81	111	20
1,2-Dichlorobenzene	50	0	48.3	ug/L	97		5		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	50.9	ug/L	102		5		79	137	20
1,2,4-Trichlorobenzene	50	0	50.0	ug/L	100		5		73	120	20
1,2,3-Trichlorobenzene	50	0	50.7	ug/L	101		5		75	119	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3195 **Analytical Method:** SW8260-Low

Client: TechLaw Consultants, Inc **Datafile :** VV039171.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV0925WBS01	Dichlorodifluoromethane	20	18.2	ug/L	91			69	116	
	Chloromethane	20	19.1	ug/L	96			65	116	
	Vinyl chloride	20	19.4	ug/L	97			65	117	
	Bromomethane	20	18.7	ug/L	94			58	125	
	Chloroethane	20	19.3	ug/L	97			56	128	
	Trichlorofluoromethane	20	19.4	ug/L	97			73	115	
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/L	100			80	112	
	1,1-Dichloroethene	20	19.9	ug/L	100			74	110	
	Acetone	100	89.0	ug/L	89			60	125	
	Carbon disulfide	20	19.0	ug/L	95			64	112	
	Methyl tert-butyl Ether	20	20.0	ug/L	100			78	114	
	Methyl Acetate	20	21.2	ug/L	106			67	125	
	Methylene Chloride	20	20.6	ug/L	103			72	114	
	trans-1,2-Dichloroethene	20	19.7	ug/L	99			75	108	
	1,1-Dichloroethane	20	19.3	ug/L	97			78	112	
	Cyclohexane	20	18.2	ug/L	91			75	110	
	2-Butanone	100	97.1	ug/L	97			65	122	
	Carbon Tetrachloride	20	19.4	ug/L	97			77	113	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			77	110	
	Bromochloromethane	20	20.5	ug/L	103			70	124	
	Chloroform	20	19.2	ug/L	96			79	113	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			80	108	
	Methylcyclohexane	20	19.2	ug/L	96			72	115	
	Benzene	20	19.9	ug/L	100			82	109	
	1,2-Dichloroethane	20	19.6	ug/L	98			80	115	
	Trichloroethene	20	20.4	ug/L	102			77	113	
	1,2-Dichloropropane	20	20.5	ug/L	103			83	111	
	Bromodichloromethane	20	19.3	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	21.5	ug/L	108			82	110	
	t-1,3-Dichloropropene	20	20.1	ug/L	101			79	110	
	cis-1,3-Dichloropropene	20	20.2	ug/L	101			82	110	
	1,1,2-Trichloroethane	20	20.0	ug/L	100			83	112	
	2-Hexanone	100	99.6	ug/L	100			73	117	
	Dibromochloromethane	20	20.2	ug/L	101			82	110	
	1,2-Dibromoethane	20	20.6	ug/L	103			81	110	
	Tetrachloroethene	20	20.2	ug/L	101			67	123	
	Chlorobenzene	20	20.1	ug/L	101			82	109	
	Ethyl Benzene	20	20.0	ug/L	100			83	109	
	m/p-Xylenes	40	43.1	ug/L	108			82	110	
	o-Xylene	20	21.0	ug/L	105			83	109	
	Styrene	20	19.3	ug/L	97			80	111	
	Bromoform	20	20.5	ug/L	103			79	109	
	Isopropylbenzene	20	20.6	ug/L	103			83	112	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97			76	118	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			82	108	
	1,4-Dichlorobenzene	20	18.9	ug/L	95			82	107	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			82	109	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3195**	**Analytical Method:**	**SW8260-Low**
Client:	**TechLaw Consultants, Inc**	**Datafile :**	VV039171.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV0925WBS01	1,2-Dibromo-3-Chloropropane	20	22.1	ug/L	111			68	112	
	1,2,4-Trichlorobenzene	20	19.2	ug/L	96			75	113	
	1,2,3-Trichlorobenzene	20	19.9	ug/L	100			76	114	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3195**	**Analytical Method:**	**SW8260-Low**
Client:	**TechLaw Consultants, Inc**	**Datafile :**	VV039201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV0926WBS01	Dichlorodifluoromethane	20	17.8	ug/L	89			69	116	
	Chloromethane	20	17.6	ug/L	88			65	116	
	Vinyl chloride	20	18.7	ug/L	94			65	117	
	Bromomethane	20	18.5	ug/L	93			58	125	
	Chloroethane	20	19.3	ug/L	97			56	128	
	Trichlorofluoromethane	20	19.0	ug/L	95			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.8	ug/L	94			80	112	
	1,1-Dichloroethene	20	19.2	ug/L	96			74	110	
	Acetone	100	86.4	ug/L	86			60	125	
	Carbon disulfide	20	17.9	ug/L	90			64	112	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			78	114	
	Methyl Acetate	20	19.9	ug/L	100			67	125	
	Methylene Chloride	20	19.9	ug/L	100			72	114	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			75	108	
	1,1-Dichloroethane	20	18.5	ug/L	93			78	112	
	Cyclohexane	20	16.7	ug/L	84			75	110	
	2-Butanone	100	90.9	ug/L	91			65	122	
	Carbon Tetrachloride	20	18.0	ug/L	90			77	113	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			77	110	
	Bromochloromethane	20	19.1	ug/L	96			70	124	
	Chloroform	20	18.4	ug/L	92			79	113	
	1,1,1-Trichloroethane	20	17.8	ug/L	89			80	108	
	Methylcyclohexane	20	17.0	ug/L	85			72	115	
	Benzene	20	19.0	ug/L	95			82	109	
	1,2-Dichloroethane	20	18.5	ug/L	93			80	115	
	Trichloroethene	20	20.1	ug/L	101			77	113	
	1,2-Dichloropropane	20	19.7	ug/L	99			83	111	
	Bromodichloromethane	20	18.9	ug/L	95			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	20.3	ug/L	102			82	110	
	t-1,3-Dichloropropene	20	20.1	ug/L	101			79	110	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			82	110	
	1,1,2-Trichloroethane	20	19.3	ug/L	97			83	112	
	2-Hexanone	100	92.5	ug/L	93			73	117	
	Dibromochloromethane	20	19.5	ug/L	98			82	110	
	1,2-Dibromoethane	20	20.2	ug/L	101			81	110	
	Tetrachloroethene	20	19.5	ug/L	98			67	123	
	Chlorobenzene	20	19.3	ug/L	97			82	109	
	Ethyl Benzene	20	19.4	ug/L	97			83	109	
	m/p-Xylenes	40	41.8	ug/L	104			82	110	
	o-Xylene	20	20.2	ug/L	101			83	109	
	Styrene	20	18.8	ug/L	94			80	111	
	Bromoform	20	20.4	ug/L	102			79	109	
	Isopropylbenzene	20	19.0	ug/L	95			83	112	
	1,1,2,2-Tetrachloroethane	20	18.1	ug/L	91			76	118	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			82	108	
	1,4-Dichlorobenzene	20	18.3	ug/L	92			82	107	
	1,2-Dichlorobenzene	20	18.9	ug/L	95			82	109	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3195**	**Analytical Method:**	**SW8260-Low**
Client:	**TechLaw Consultants, Inc**	**Datafile :**	VV039201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV0926WBS01	1,2-Dibromo-3-Chloropropane	20	21.5	ug/L	108			68	112	
	1,2,4-Trichlorobenzene	20	18.3	ug/L	92			75	113	
	1,2,3-Trichlorobenzene	20	18.4	ug/L	92			76	114	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3195**	**Analytical Method:**	**SW8260-Low**
Client:	**TechLaw Consultants, Inc**	**Datafile :**	VV039224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV0929WBS01	Dichlorodifluoromethane	20	18.5	ug/L	93			69	116	
	Chloromethane	20	18.5	ug/L	93			65	116	
	Vinyl chloride	20	18.5	ug/L	93			65	117	
	Bromomethane	20	19.4	ug/L	97			58	125	
	Chloroethane	20	19.3	ug/L	97			56	128	
	Trichlorofluoromethane	20	19.9	ug/L	100			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99			80	112	
	1,1-Dichloroethene	20	19.9	ug/L	100			74	110	
	Acetone	100	84.9	ug/L	85			60	125	
	Carbon disulfide	20	17.5	ug/L	88			64	112	
	Methyl tert-butyl Ether	20	20.6	ug/L	103			78	114	
	Methyl Acetate	20	23.1	ug/L	116			67	125	
	Methylene Chloride	20	20.5	ug/L	103			72	114	
	trans-1,2-Dichloroethene	20	19.8	ug/L	99			75	108	
	1,1-Dichloroethane	20	19.1	ug/L	96			78	112	
	Cyclohexane	20	16.8	ug/L	84			75	110	
	2-Butanone	100	98.5	ug/L	99			65	122	
	Carbon Tetrachloride	20	20.7	ug/L	104			77	113	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			77	110	
	Bromochloromethane	20	20.5	ug/L	103			70	124	
	Chloroform	20	19.3	ug/L	97			79	113	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			80	108	
	Methylcyclohexane	20	17.7	ug/L	89			72	115	
	Benzene	20	20.6	ug/L	103			82	109	
	1,2-Dichloroethane	20	20.5	ug/L	103			80	115	
	Trichloroethene	20	22.1	ug/L	111			77	113	
	1,2-Dichloropropane	20	20.4	ug/L	102			83	111	
	Bromodichloromethane	20	20.8	ug/L	104			83	110	
	4-Methyl-2-Pentanone	100	120	ug/L	120		*	74	118	
	Toluene	20	22.1	ug/L	111		*	82	110	
	t-1,3-Dichloropropene	20	21.3	ug/L	106			79	110	
	cis-1,3-Dichloropropene	20	21.6	ug/L	108			82	110	
	1,1,2-Trichloroethane	20	22.1	ug/L	111			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	22.0	ug/L	110			82	110	
	1,2-Dibromoethane	20	22.1	ug/L	111		*	81	110	
	Tetrachloroethene	20	22.0	ug/L	110			67	123	
	Chlorobenzene	20	20.6	ug/L	103			82	109	
	Ethyl Benzene	20	20.7	ug/L	104			83	109	
	m/p-Xylenes	40	44.5	ug/L	111		*	82	110	
	o-Xylene	20	21.5	ug/L	108			83	109	
	Styrene	20	20.4	ug/L	102			80	111	
	Bromoform	20	23.6	ug/L	118		*	79	109	
	Isopropylbenzene	20	19.4	ug/L	97			83	112	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/L	95			76	118	
	1,3-Dichlorobenzene	20	20.2	ug/L	101			82	108	
	1,4-Dichlorobenzene	20	19.6	ug/L	98			82	107	
	1,2-Dichlorobenzene	20	19.7	ug/L	99			82	109	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3195**	**Analytical Method:**	**SW8260-Low**
Client:	**TechLaw Consultants, Inc**	**Datafile :**	VV039224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV0929WBS01	1,2-Dibromo-3-Chloropropane	20	22.3	ug/L	112			68	112	
	1,2,4-Trichlorobenzene	20	20.0	ug/L	100			75	113	
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103			76	114	

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VV0925WBL01

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039170.D Lab Sample ID: VV0925WBL01

Date Analyzed: 09/25/2025 Time Analyzed: 11:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VV0925WBS01	VV0925WBS01	VV039171.D	09/25/2025
RW-1-092425	Q3195-22	VV039186.D	09/25/2025
EB-01-091925	Q3195-23	VV039187.D	09/25/2025
FB-01-091925	Q3195-25	VV039189.D	09/25/2025
FB-02-092225	Q3195-26	VV039190.D	09/25/2025
TB-01-091525	Q3195-27	VV039191.D	09/25/2025
MW-1-091725	Q3195-02	VV039192.D	09/25/2025
MW-22-091825	Q3195-09	VV039193.D	09/25/2025
MW-23-092325	Q3195-10	VV039194.D	09/25/2025
MW-24-091925	Q3195-11	VV039195.D	09/25/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VV0926WBL01

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039200.D Lab Sample ID: VV0926WBL01

Date Analyzed: 09/26/2025 Time Analyzed: 10:23

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VV0926WBS01	VV0926WBS01	VV039201.D	09/26/2025
EB-02-092225	Q3195-24	VV039203.D	09/26/2025
MW-26-091925	Q3195-12	VV039204.D	09/26/2025
MW-4-091625	Q3195-04	VV039205.D	09/26/2025
MOS-18-092225	Q3195-01	VV039206.D	09/26/2025
MW-3-091525	Q3195-03	VV039207.D	09/26/2025
MW-6-091625	Q3195-05	VV039208.D	09/26/2025
MW-19D-092225	Q3195-06	VV039209.D	09/26/2025
MW-21M-091925	Q3195-08	VV039211.D	09/26/2025
MW-26-091925-FD	Q3195-13	VV039212.D	09/26/2025
MW-29-092325	Q3195-14	VV039213.D	09/26/2025
MW-31S-091825	Q3195-15	VV039214.D	09/26/2025
MW-31D-091825	Q3195-16	VV039215.D	09/26/2025
MW-31D-091825-FD	Q3195-17	VV039216.D	09/26/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VV0929WBL01

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039223.D Lab Sample ID: VV0929WBL01

Date Analyzed: 09/29/2025 Time Analyzed: 12:00

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VV0929WBS01	VV0929WBS01	VV039224.D	09/29/2025
MW-31S-091825DL	Q3195-15DL	VV039226.D	09/29/2025
MW-32S-091725	Q3195-18	VV039227.D	09/29/2025
MW-33D-091725	Q3195-19	VV039228.D	09/29/2025
MW-19M-092325	Q3195-07	VV039229.D	09/29/2025
MW-31D-091825DL	Q3195-16DL	VV039230.D	09/29/2025
MW-31D-091825-FDDL	Q3195-17DL	VV039231.D	09/29/2025
MW-33D-091725MS	Q3195-20MS	VV039237.D	09/29/2025
MW-33D-091725MSD	Q3195-21MSD	VV039238.D	09/29/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG NO.: Q3195

Lab File ID: VV039134.D | BFB Injection Date: 09/22/2025

Instrument ID: MSVOA_V | BFB Injection Time: 10:15

GC Column: DB-624UI ID: 0.18 (mm) | Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.1 (1.6) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.4 (96) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC010	VSTDICC010	VV039137.D	09/22/2025	12:26
VSTDICC020	VSTDICC020	VV039138.D	09/22/2025	12:48
VSTDICCC050	VSTDICCC050	VV039139.D	09/22/2025	13:26
VSTDICC100	VSTDICC100	VV039140.D	09/22/2025	13:49
VSTDICC005	VSTDICC005	VV039142.D	09/22/2025	15:37
VSTDICC001	VSTDICC001	VV039143.D	09/22/2025	16:35

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG NO.: Q3195

Lab File ID: VV039167.D | BFB Injection Date: 09/25/2025

Instrument ID: MSVOA_V | BFB Injection Time: 09:14

GC Column: DB-624UI ID: 0.18 (mm) | Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.2
75	30.0 - 60.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	1.3 (1.7) 1
174	50.0 - 100.0% of mass 95	72.3
175	5.0 - 9.0% of mass 174	5.7 (7.9) 1
176	95.0 - 101.0% of mass 174	69.9 (96.6) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VV039168.D	09/25/2025	09:59
VV0925WBL01	VV0925WBL01	VV039170.D	09/25/2025	11:01
VV0925WBS01	VV0925WBS01	VV039171.D	09/25/2025	11:24
RW-1-092425	Q3195-22	VV039186.D	09/25/2025	17:03
EB-01-091925	Q3195-23	VV039187.D	09/25/2025	17:25
FB-01-091925	Q3195-25	VV039189.D	09/25/2025	18:10
FB-02-092225	Q3195-26	VV039190.D	09/25/2025	18:32
TB-01-091525	Q3195-27	VV039191.D	09/25/2025	18:55
MW-1-091725	Q3195-02	VV039192.D	09/25/2025	19:17
MW-22-091825	Q3195-09	VV039193.D	09/25/2025	19:40
MW-23-092325	Q3195-10	VV039194.D	09/25/2025	20:02
MW-24-091925	Q3195-11	VV039195.D	09/25/2025	20:25

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG NO.: Q3195

Lab File ID: VV039197.D | BFB Injection Date: 09/26/2025

Instrument ID: MSVOA_V | BFB Injection Time: 08:14

GC Column: DB-624UI ID: 0.18 (mm) | Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	73.6
175	5.0 - 9.0% of mass 174	6.5 (8.8) 1
176	95.0 - 101.0% of mass 174	71.7 (97.4) 1
177	5.0 - 9.0% of mass 176	4.9 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VV039198.D	09/26/2025	09:20
VV0926WBL01	VV0926WBL01	VV039200.D	09/26/2025	10:23
VV0926WBS01	VV0926WBS01	VV039201.D	09/26/2025	10:49
EB-02-092225	Q3195-24	VV039203.D	09/26/2025	11:36
MW-26-091925	Q3195-12	VV039204.D	09/26/2025	11:58
MW-4-091625	Q3195-04	VV039205.D	09/26/2025	12:21
MOS-18-092225	Q3195-01	VV039206.D	09/26/2025	12:43
MW-3-091525	Q3195-03	VV039207.D	09/26/2025	13:06
MW-6-091625	Q3195-05	VV039208.D	09/26/2025	13:28
MW-19D-092225	Q3195-06	VV039209.D	09/26/2025	13:51
MW-21M-091925	Q3195-08	VV039211.D	09/26/2025	14:36
MW-26-091925-FD	Q3195-13	VV039212.D	09/26/2025	14:58
MW-29-092325	Q3195-14	VV039213.D	09/26/2025	15:20
MW-31S-091825	Q3195-15	VV039214.D	09/26/2025	15:43
MW-31D-091825	Q3195-16	VV039215.D	09/26/2025	16:05
MW-31D-091825-FD	Q3195-17	VV039216.D	09/26/2025	16:28

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG NO.: Q3195

Lab File ID: VV039220.D | BFB Injection Date: 09/29/2025

Instrument ID: MSVOA_V | BFB Injection Time: 09:48

GC Column: DB-624UI ID: 0.18 (mm) | Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	46.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	1.3 (1.7) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	6.3 (8.3) 1
176	95.0 - 101.0% of mass 174	72.5 (96.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VV039221.D	09/29/2025	11:11
VV0929WBL01	VV0929WBL01	VV039223.D	09/29/2025	12:00
VV0929WBS01	VV0929WBS01	VV039224.D	09/29/2025	12:23
MW-31S-091825DL	Q3195-15DL	VV039226.D	09/29/2025	13:08
MW-32S-091725	Q3195-18	VV039227.D	09/29/2025	13:31
MW-33D-091725	Q3195-19	VV039228.D	09/29/2025	13:53
MW-19M-092325	Q3195-07	VV039229.D	09/29/2025	14:16
MW-31D-091825DL	Q3195-16DL	VV039230.D	09/29/2025	14:38
MW-31D-091825-FDDL	Q3195-17DL	VV039231.D	09/29/2025	15:01
MW-33D-091725MS	Q3195-20MS	VV039237.D	09/29/2025	17:15
MW-33D-091725MSD	Q3195-21MSD	VV039238.D	09/29/2025	17:38

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039168.D Date Analyzed: 09/25/2025

Instrument ID: MSVOA_V Time Analyzed: 09:59

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	605297	4.60	933338	5.53	901987	8.77
UPPER LIMIT	1210590	5.096	1866680	6.029	1803970	9.273
LOWER LIMIT	302649	4.096	466669	5.029	450994	8.273
EPA SAMPLE NO.						
MW-1-091725	535790	4.60	971101	5.53	956100	8.78
MW-22-091825	525270	4.60	956838	5.54	943207	8.78
MW-23-092325	518728	4.60	934521	5.54	917520	8.78
MW-24-091925	515327	4.60	928629	5.54	925762	8.78
RW-1-092425	349429	4.60	628697	5.54	611801	8.78
EB-01-091925	360957	4.60	632244	5.54	624309	8.78
FB-01-091925	562300	4.60	1002078	5.54	977857	8.78
FB-02-092225	557526	4.60	1004933	5.53	984426	8.78
TB-01-091525	466916	4.60	828915	5.54	809498	8.78
VV0925WBL01	480047	4.60	864912	5.53	870930	8.78
VV0925WBS01	557017	4.60	898902	5.54	871912	8.78

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039168.D Date Analyzed: 09/25/2025

Instrument ID: MSVOA_V Time Analyzed: 09:59

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	535710	11.172				
UPPER LIMIT	1071420	11.672				
LOWER LIMIT	267855	10.672				
EPA SAMPLE NO.						
MW-1-091725	458217	11.17				
MW-22-091825	451495	11.18				
MW-23-092325	439919	11.17				
MW-24-091925	442595	11.17				
RW-1-092425	288234	11.18				
EB-01-091925	293380	11.18				
FB-01-091925	478832	11.18				
FB-02-092225	478455	11.18				
TB-01-091525	384637	11.18				
VV0925WBL01	413592	11.18				
VV0925WBS01	508947	11.17				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039198.D Date Analyzed: 09/26/2025

Instrument ID: MSVOA_V Time Analyzed: 09:20

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	568268	4.60	890856	5.53	851107	8.77
UPPER LIMIT	1136540	5.097	1781710	6.029	1702210	9.273
LOWER LIMIT	284134	4.097	445428	5.029	425554	8.273
EPA SAMPLE NO.						
MOS-18-092225	335184	4.60	584917	5.54	609610	8.78
MW-3-091525	599898	4.60	1062714	5.53	1062408	8.78
MW-4-091625	513652	4.60	924164	5.54	911885	8.78
MW-6-091625	374514	4.60	660135	5.54	675751	8.78
MW-19D-092225	344932	4.60	614959	5.54	627934	8.78
MW-21M-091925	513487	4.60	944501	5.54	957014	8.78
MW-26-091925	486629	4.60	867427	5.54	873266	8.78
MW-26-091925-FD	454191	4.60	813227	5.54	842320	8.78
MW-29-092325	450640	4.60	819940	5.54	841715	8.78
MW-31S-091825	444783	4.60	811223	5.54	838423	8.78
MW-31D-091825	523421	4.60	967034	5.54	980974	8.78
MW-31D-091825-FD	333282	4.60	591720	5.54	612863	8.78
EB-02-092225	509169	4.60	912297	5.54	888919	8.78
VV0926WBL01	488972	4.60	870889	5.54	870759	8.78
VV0926WBS01	545170	4.60	871681	5.53	834845	8.78

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039198.D Date Analyzed: 09/26/2025

Instrument ID: MSVOA_V Time Analyzed: 09:20

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	503461	11.172				
UPPER LIMIT	1006920	11.672				
LOWER LIMIT	251731	10.672				
EPA SAMPLE NO.						
MOS-18-092225	284053	11.18				
MW-3-091525	512995	11.18				
MW-4-091625	438479	11.17				
MW-6-091625	313063	11.18				
MW-19D-092225	291769	11.18				
MW-21M-091925	451121	11.18				
MW-26-091925	420754	11.18				
MW-26-091925-FD	398907	11.17				
MW-29-092325	391674	11.18				
MW-31S-091825	399971	11.17				
MW-31D-091825	469900	11.18				
MW-31D-091825-FD	282611	11.17				
EB-02-092225	432706	11.17				
VV0926WBL01	422120	11.18				
VV0926WBS01	490803	11.17				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039221.D Date Analyzed: 09/29/2025

Instrument ID: MSVOA_V Time Analyzed: 11:11

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	564484	4.60	842301	5.53	811375	8.77
UPPER LIMIT	1128970	5.096	1684600	6.032	1622750	9.273
LOWER LIMIT	282242	4.096	421151	5.032	405688	8.273
EPA SAMPLE NO.						
MW-19M-092325	435615	4.60	743567	5.54	762813	8.78
MW-31S-091825DL	520194	4.60	885532	5.54	868036	8.78
MW-31D-091825DL	458405	4.60	805402	5.54	812071	8.78
MW-31D-091825-FDDL	456320	4.60	803964	5.54	819993	8.78
MW-32S-091725	474559	4.60	811077	5.54	824686	8.78
MW-33D-091725	463190	4.60	796521	5.54	800959	8.78
MW-33D-091725MS	494074	4.60	722914	5.53	717971	8.78
MW-33D-091725MSD	540727	4.60	801849	5.53	776445	8.78
VV0929WBL01	463653	4.60	797576	5.54	809645	8.78
VV0929WBS01	516454	4.60	792956	5.54	778611	8.78

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039221.D Date Analyzed: 09/29/2025

Instrument ID: MSVOA_V Time Analyzed: 11:11

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	505725	11.172				
UPPER LIMIT	1011450	11.672				
LOWER LIMIT	252863	10.672				
EPA SAMPLE NO.						
MW-19M-092325	378816	11.18				
MW-31S-091825DL	445110	11.18				
MW-31D-091825DL	405371	11.17				
MW-31D-091825-FDDL	404883	11.18				
MW-32S-091725	412882	11.18				
MW-33D-091725	398638	11.18				
MW-33D-091725MS	463779	11.17				
MW-33D-091725MSD	497049	11.17				
VV0929WBL01	403956	11.18				
VV0929WBS01	484149	11.17				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

SAMPLE DATA

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MOS-18-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039206.D	1	09/26/25 12:43	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	9.70		0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.49	J	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2.80		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	2.20		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MOS-18-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039206.D	1	09/26/25 12:43	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	32.7		0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.6		74 - 125	119%	SPK: 50
1868-53-7	Dibromofluoromethane	58.1		75 - 124	116%	SPK: 50
2037-26-5	Toluene-d8	47.1		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	335000	4.6			
540-36-3	1,4-Difluorobenzene	585000	5.535			
3114-55-4	Chlorobenzene-d5	610000	8.777			
3855-82-1	1,4-Dichlorobenzene-d4	284000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MOS-18-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039206.D	1	09/26/25 12:43	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Quant Time: Sep 27 02:54:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

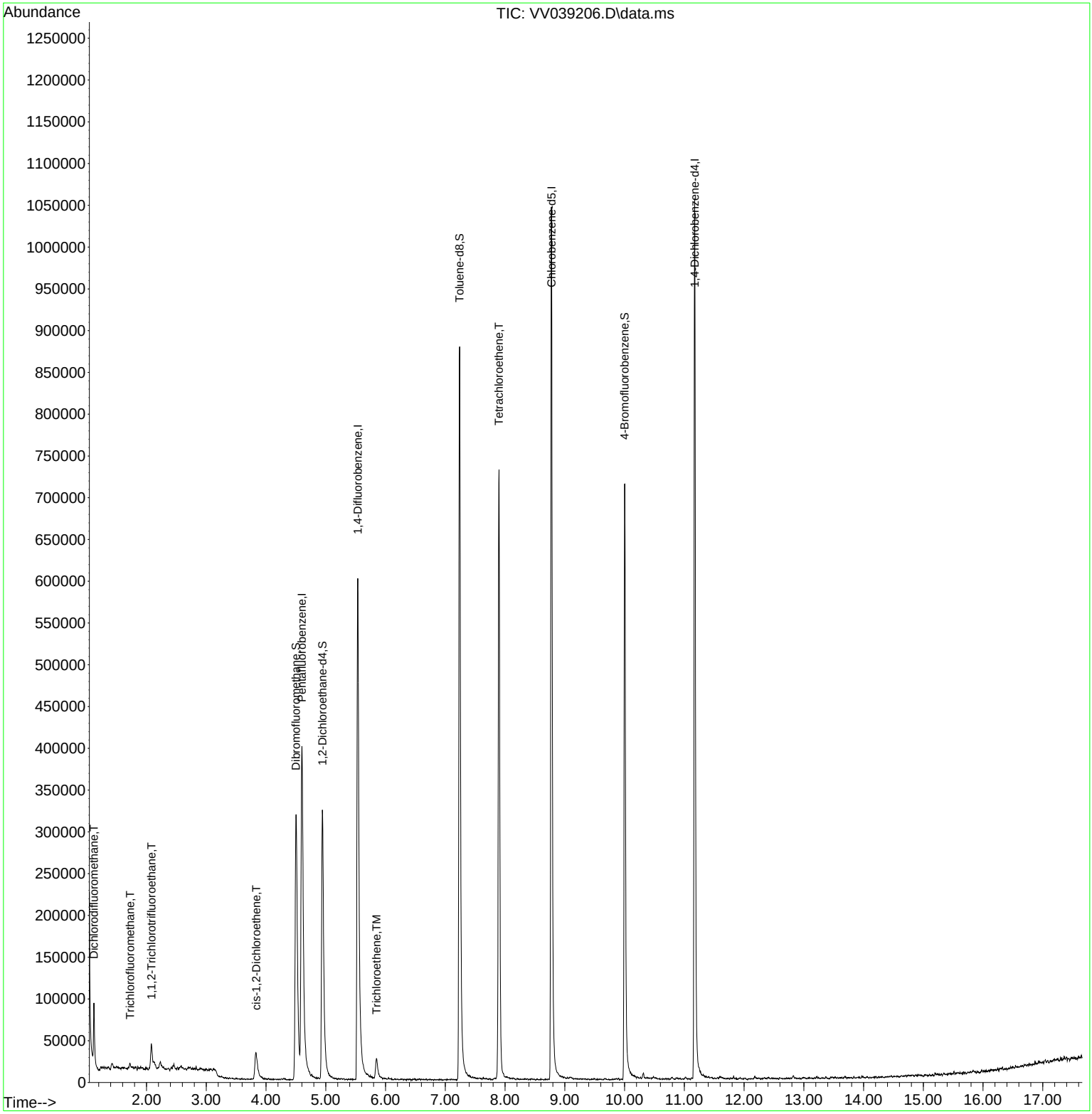
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	335184	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	584917	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.777	117	609610	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	284053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	289205	59.616	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 119.240%#			
35) Dibromofluoromethane	4.503	113	273170	58.093	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 116.180%			
50) Toluene-d8	7.240	98	651040	47.141	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.280%			
62) 4-Bromofluorobenzene	10.002	95	249742	43.927	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	51494	9.705	ug/l	99
7) Trichlorofluoromethane	1.725	101	4326	0.490	ug/l #	71
9) 1,1,2-Trichlorotrifluo...	2.082	101	12904	2.456	ug/l	92
27) cis-1,2-Dichloroethene	3.838	96	16894	2.847	ug/l	90
44) Trichloroethene	5.851	130	11568	2.165	ug/l	80
64) Tetrachloroethene	7.899	164	166907	32.688	ug/l	99

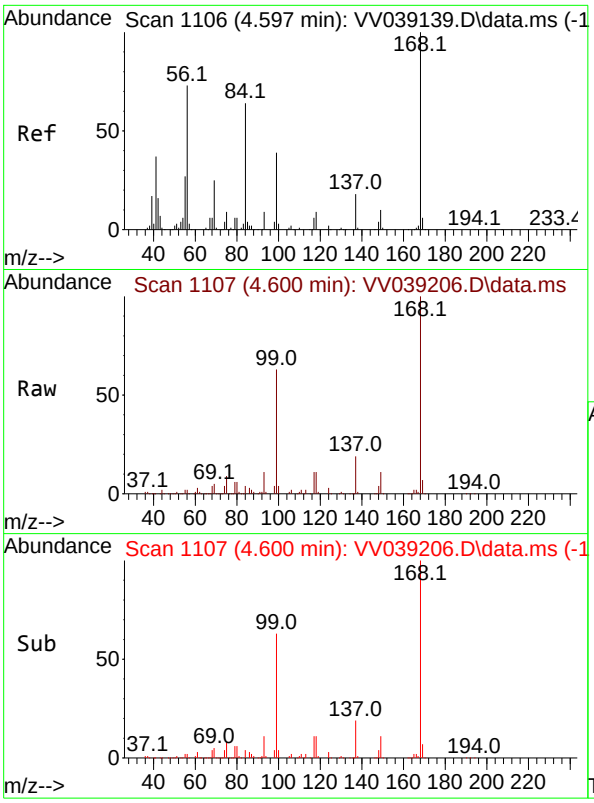
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Quant Time: Sep 27 02:54:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



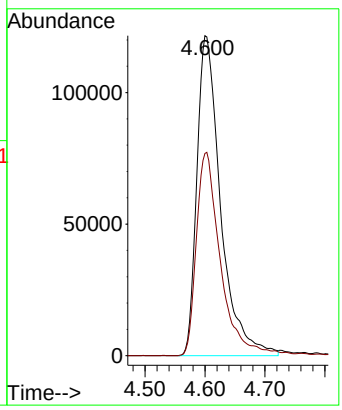


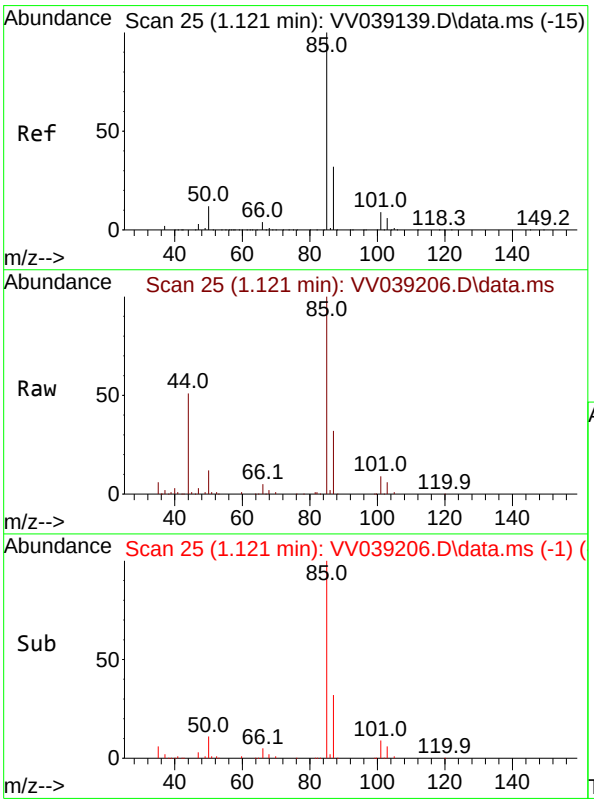
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Tgt Ion:168 Resp: 335184

Ion	Ratio	Lower	Upper
168	100		
99	63.2	49.6	74.4

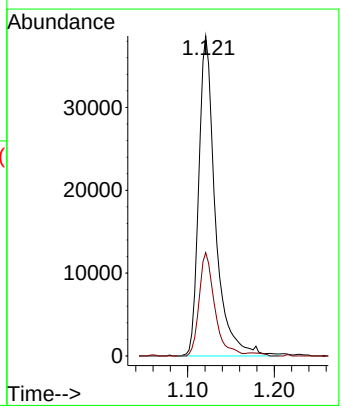


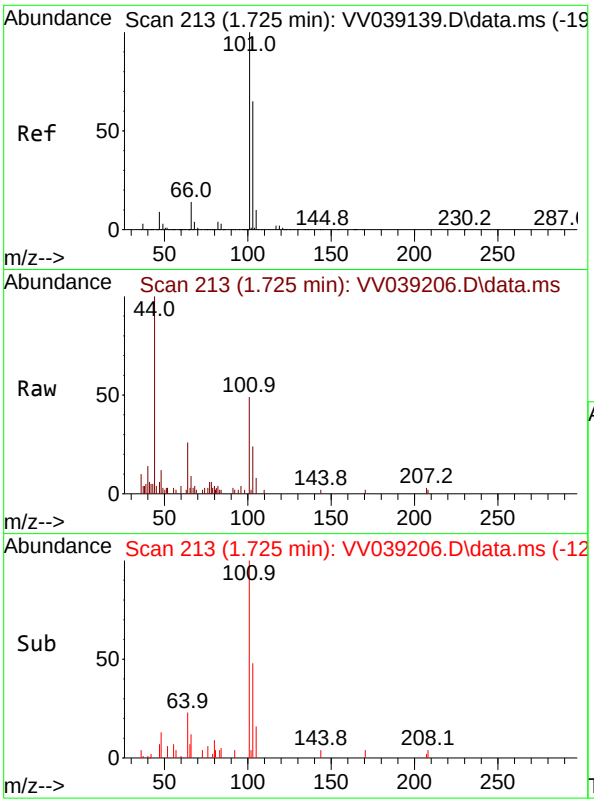


#2
Dichlorodifluoromethane
Concen: 9.705 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion: 85 Resp: 51494

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.0	47.9



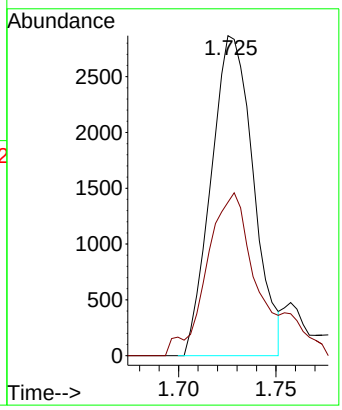


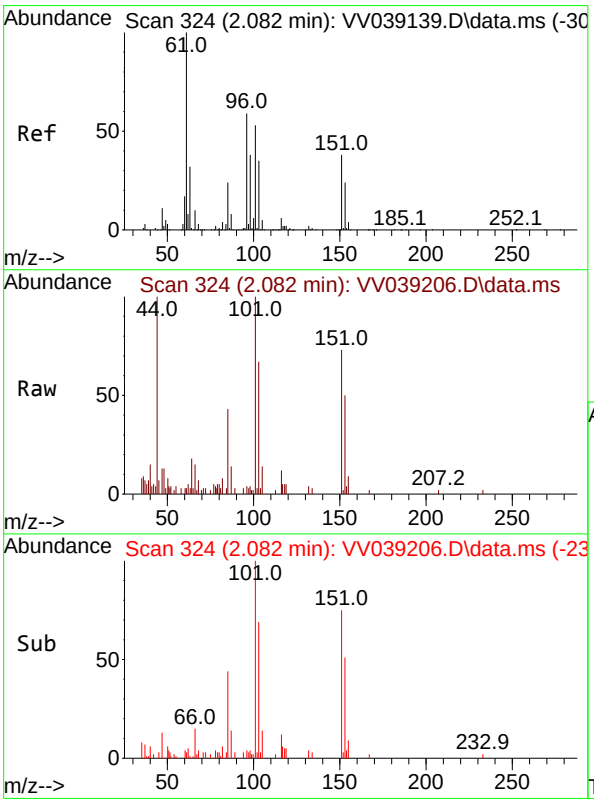
#7
Trichlorofluoromethane
Concen: 0.490 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Tgt Ion:101 Resp: 4326

Ion	Ratio	Lower	Upper
101	100		
103	42.1	52.0	78.0#

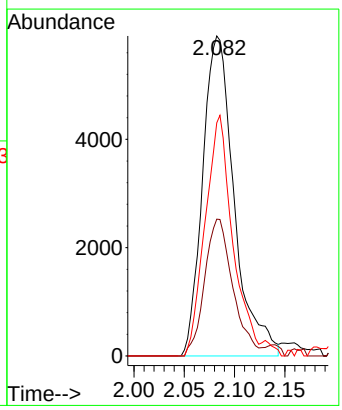


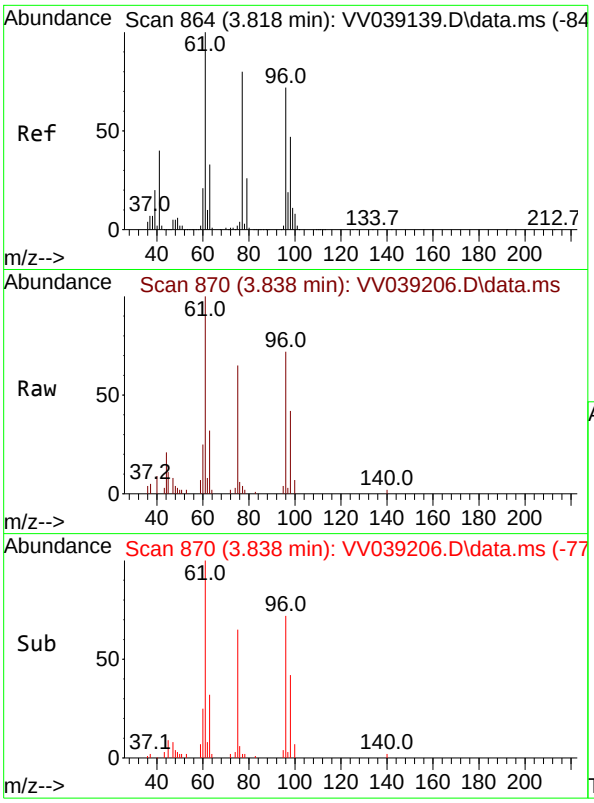


#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.456 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:101 Resp: 12904

Ion	Ratio	Lower	Upper
101	100		
85	38.4	36.2	54.2
151	65.7	56.3	84.5



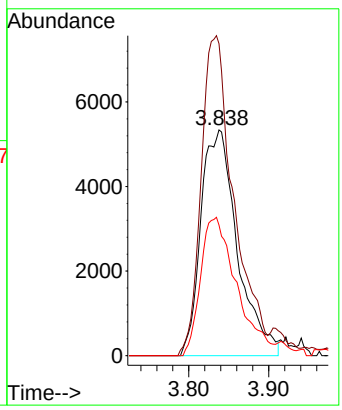


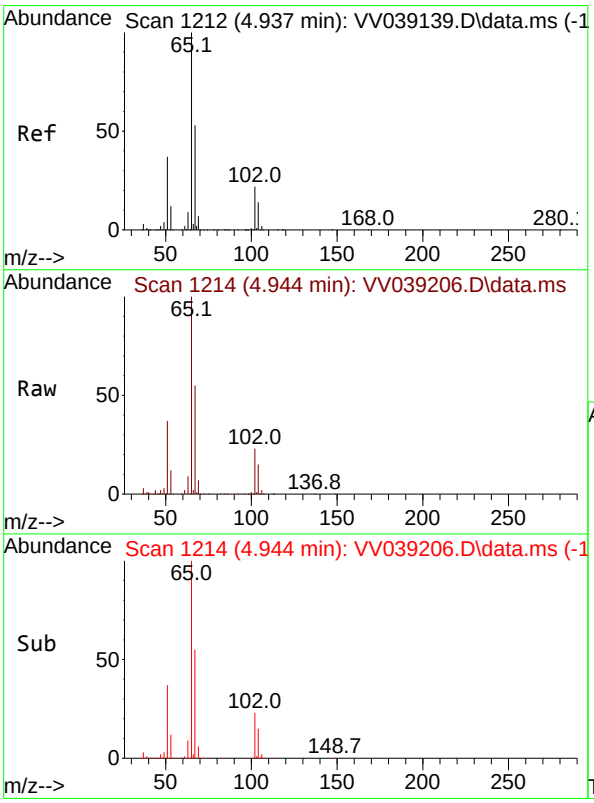
#27
cis-1,2-Dichloroethene
Concen: 2.847 ug/l
RT: 3.838 min Scan# 8
Delta R.T. 0.019 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Tgt Ion: 96 Resp: 16894

Ion	Ratio	Lower	Upper
96	100		
61	127.1	0.0	286.4
98	60.9	0.0	126.6

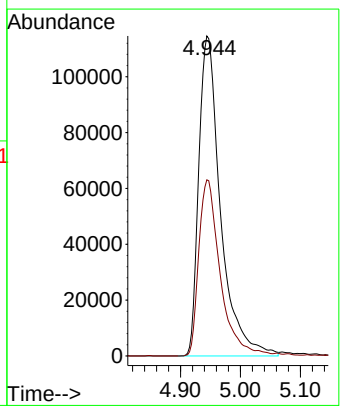


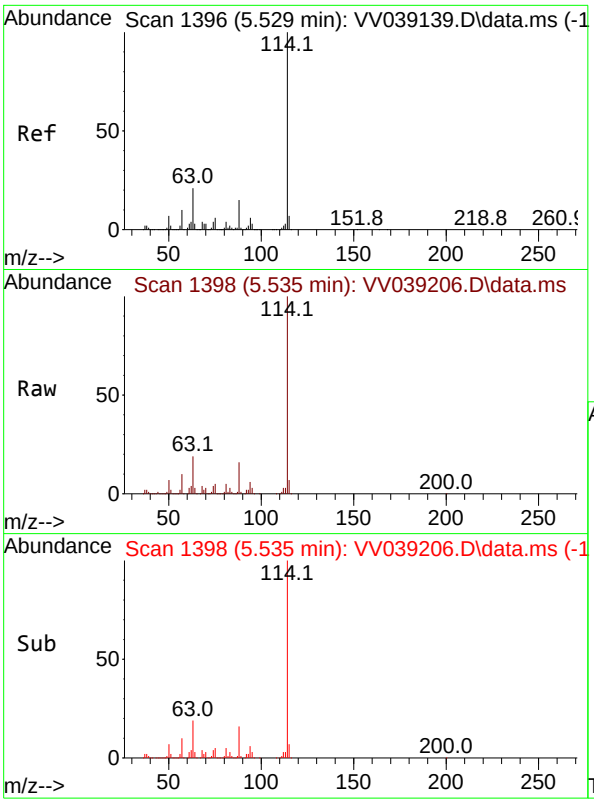


#33
1,2-Dichloroethane-d4
Concen: 59.616 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.007 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion: 65 Resp: 289205

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	107.0



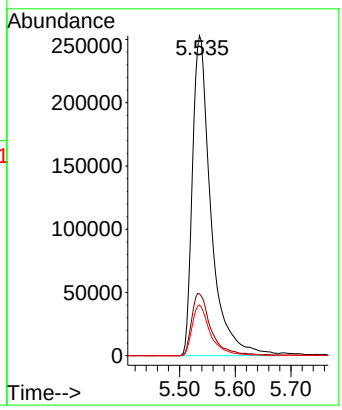


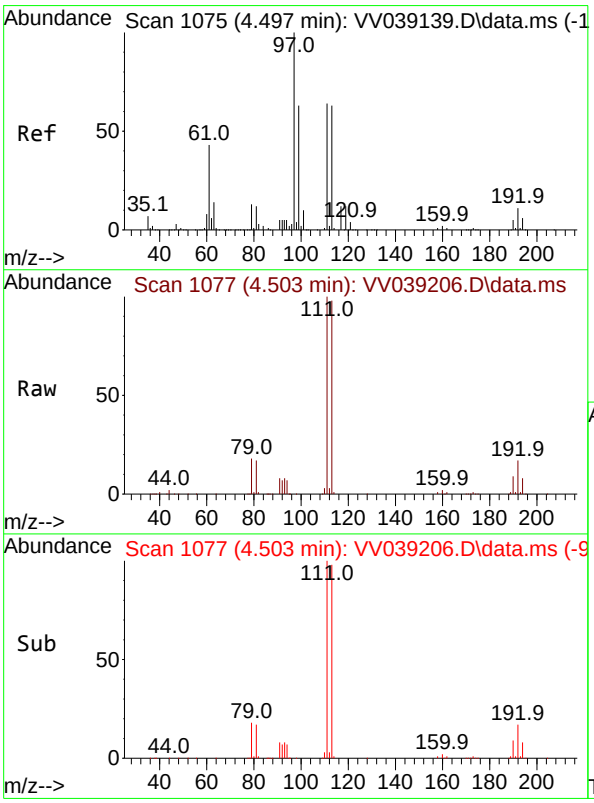
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Tgt Ion:114 Resp: 584917

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.6
88	15.8	0.0	30.8

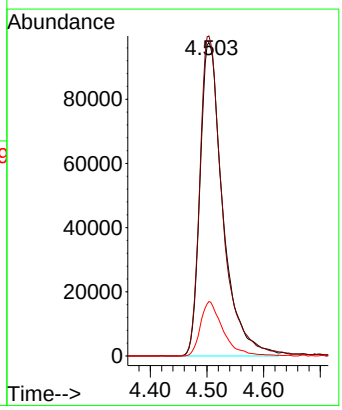


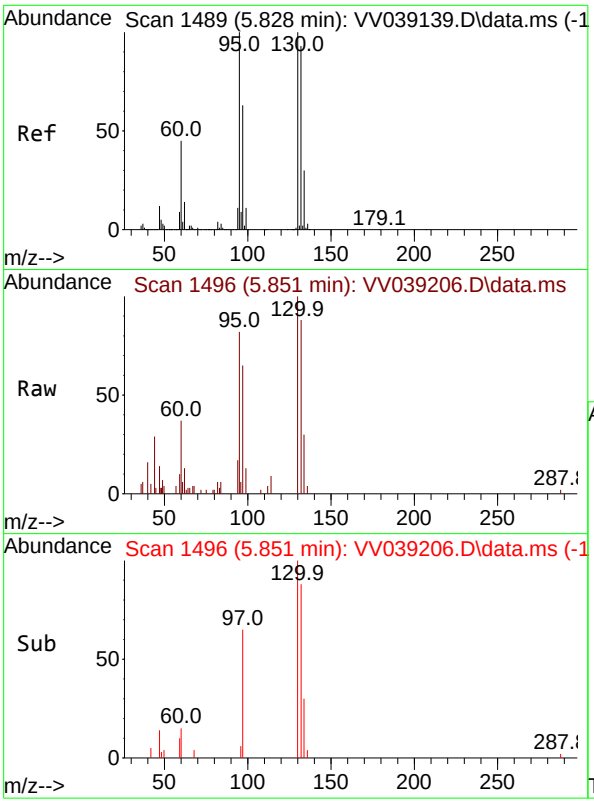


#35
Dibromofluoromethane
Concen: 58.093 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.007 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:113 Resp: 273170

Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.4	123.6
192	17.1	13.8	20.8



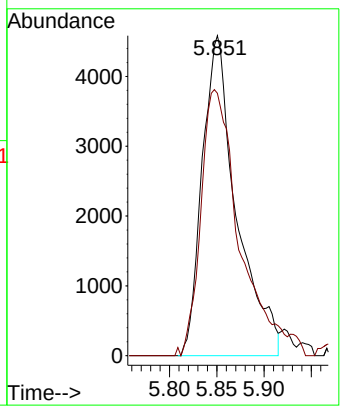


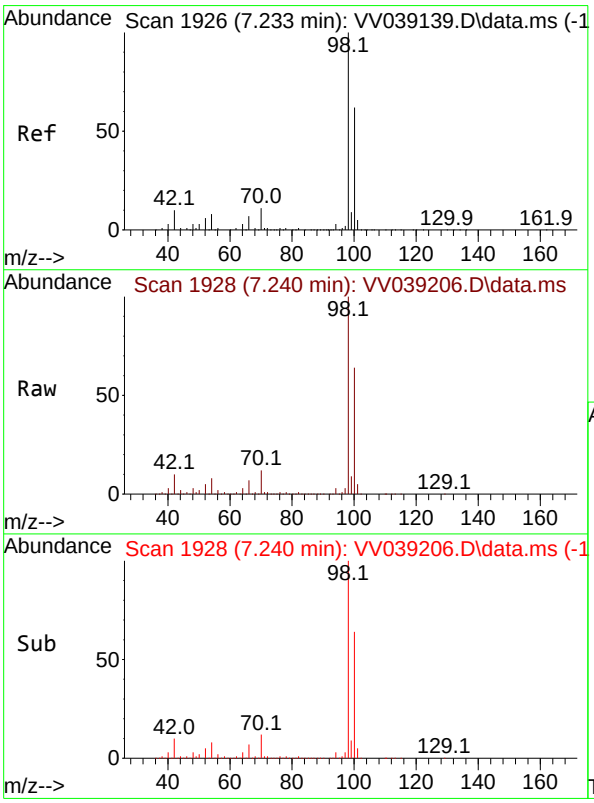
#44
Trichloroethene
Concen: 2.165 ug/l
RT: 5.851 min Scan# 14
Delta R.T. 0.023 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Tgt Ion:130 Resp: 11568

Ion	Ratio	Lower	Upper
130	100		
95	79.5	0.0	199.2

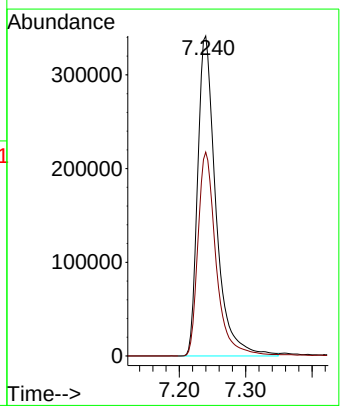


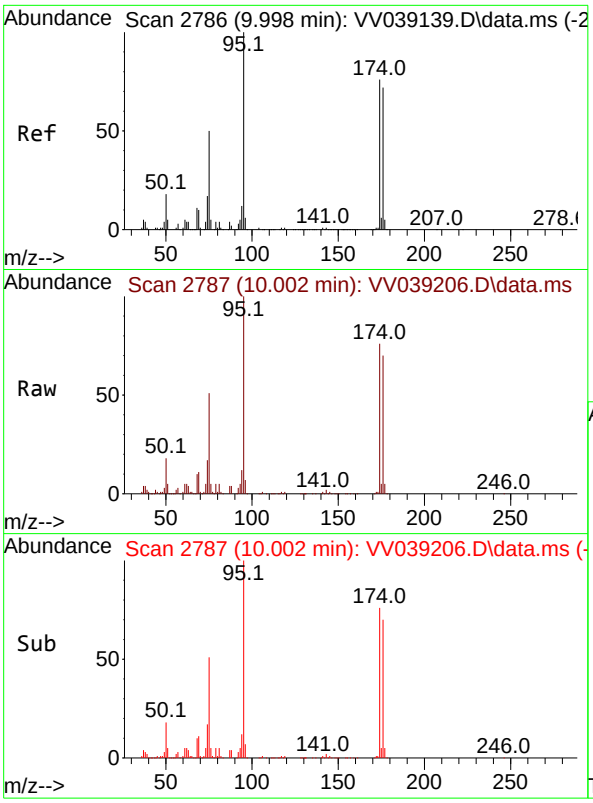


#50
Toluene-d8
Concen: 47.141 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.007 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion: 98 Resp: 651040

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.2



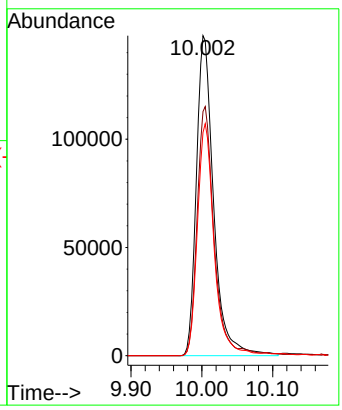


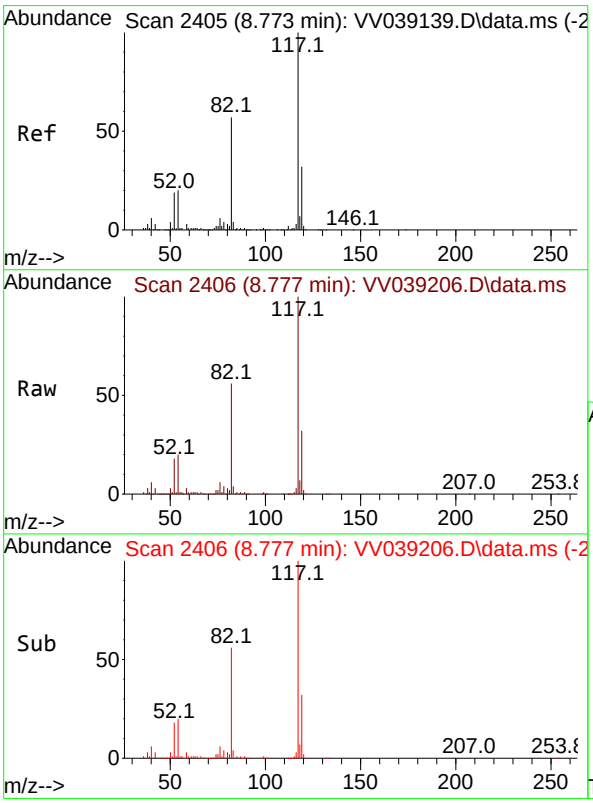
#62
4-Bromofluorobenzene
Concen: 43.927 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Tgt Ion: 95 Resp: 249742

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	150.4
176	70.3	0.0	144.2

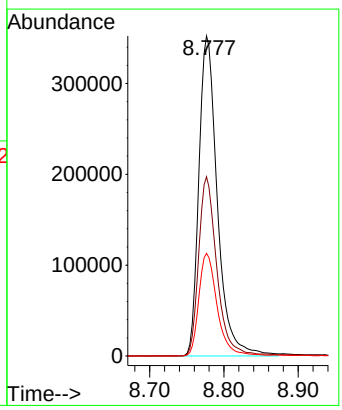


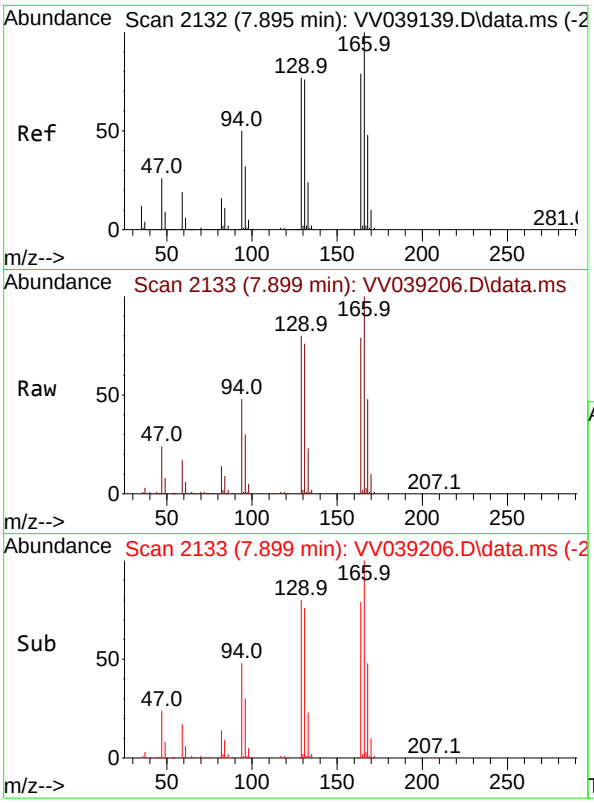


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 2406
Delta R.T. 0.004 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:117 Resp: 609610

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.4	68.2
119	32.1	25.6	38.4



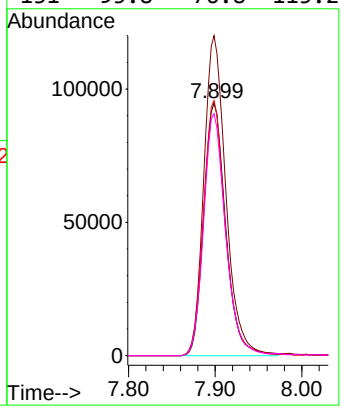


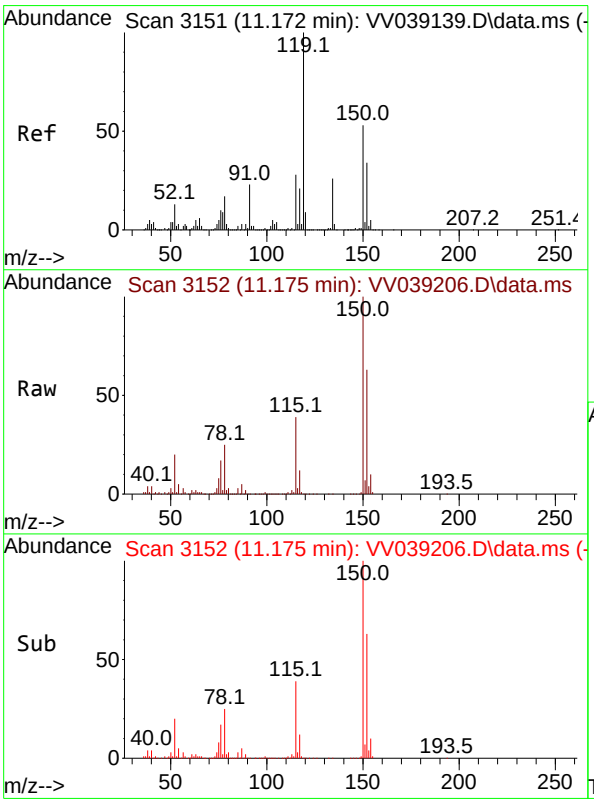
#64
Tetrachloroethene
Concen: 32.688 ug/l
RT: 7.899 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Tgt Ion:164 Resp: 166907

Ion	Ratio	Lower	Upper
164	100		
166	126.6	101.6	152.4
129	100.9	78.5	117.7
131	95.8	76.8	115.2

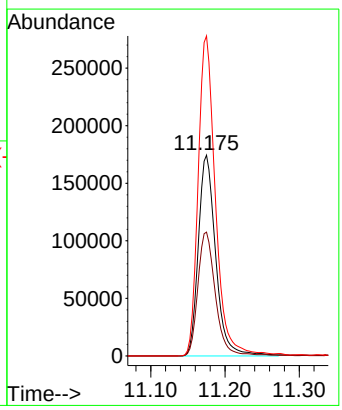




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:152 Resp: 284053

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.8	134.4
150	158.2	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039206.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.121	19	25	49	rVB	80911	121667	6.59%	0.986%
2	2.082	314	324	332	rBV3	29053	53693	2.91%	0.435%
3	3.831	855	868	889	rBV3	31358	96917	5.25%	0.785%
4	4.503	1059	1077	1096	rBV	317838	847996	45.91%	6.871%
5	4.600	1096	1107	1147	rVB	392513	1084497	58.72%	8.788%
6	4.944	1199	1214	1246	rBV	322030	816841	44.22%	6.619%
7	5.535	1387	1398	1444	rBV	599915	1428164	77.32%	11.572%
8	5.851	1483	1496	1517	rBV6	23792	62674	3.39%	0.508%
9	7.240	1913	1928	1962	rBV	878473	1710697	92.62%	13.862%
10	7.899	2117	2133	2162	rBV	729232	1310094	70.93%	10.616%
11	8.777	2395	2406	2451	rBV	1044591	1847018	100.00%	14.966%
12	10.005	2777	2788	2817	rBV2	713170	1222723	66.20%	9.908%
13	11.175	3141	3152	3180	rBV	1053232	1738350	94.12%	14.086%

Sum of corrected areas: 12341331

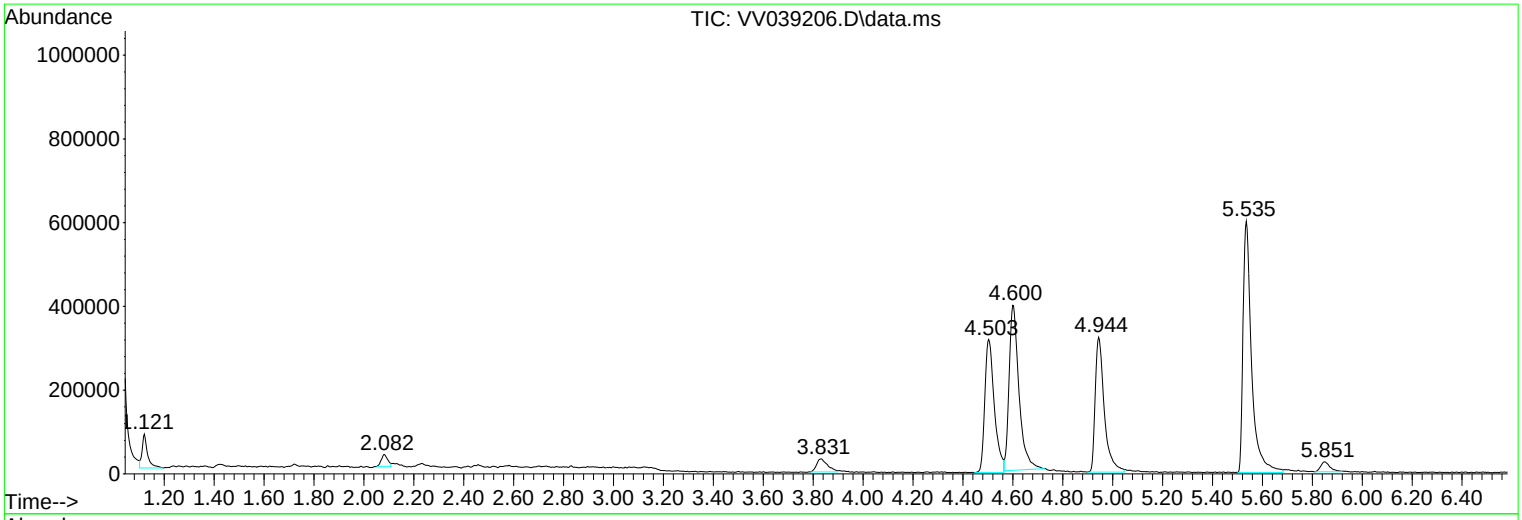
Sample Results: **VV039206.D**

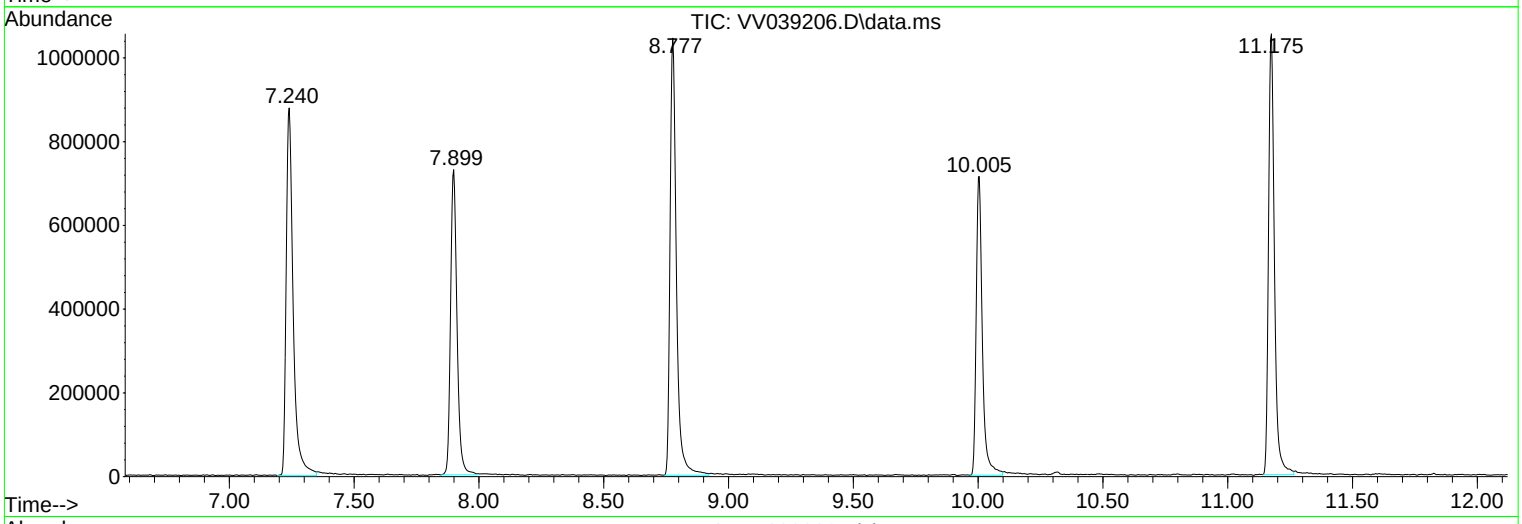
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

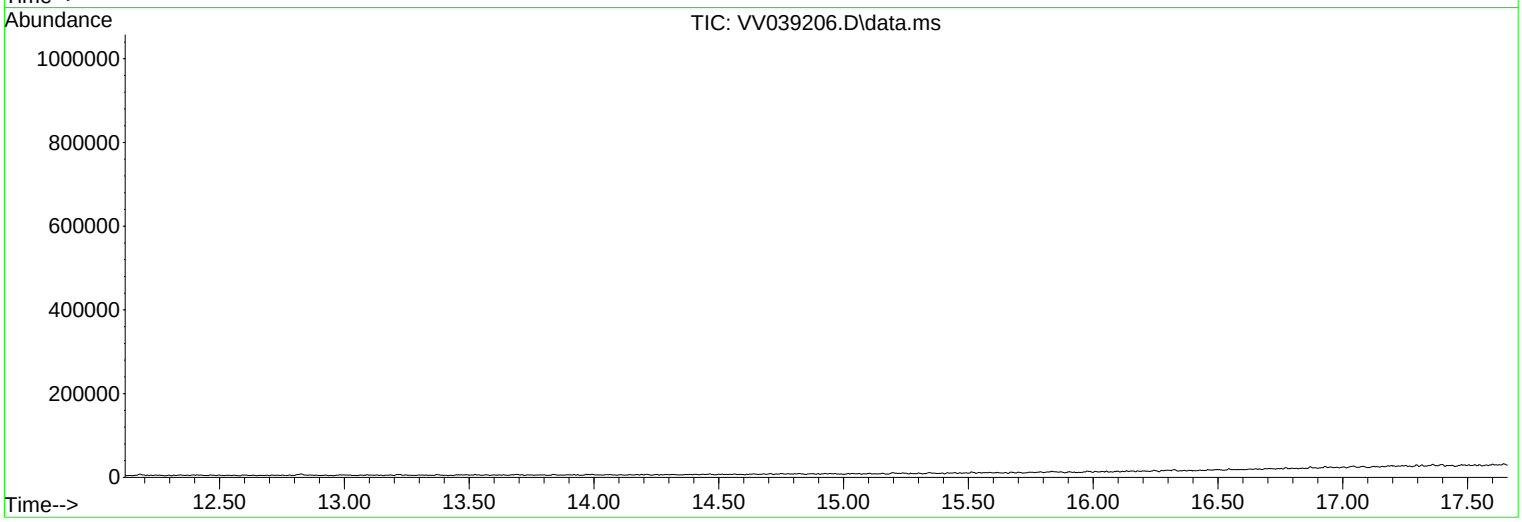
Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MOS-18-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-1-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039192.D	1	09/25/25 19:17	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	J	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.76	J	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	5.50		0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.40	J	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.2		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.10		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	41.4		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-1-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039192.D	1	09/25/25 19:17	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.2		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	46.4		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.1		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	536000	4.6			
540-36-3	1,4-Difluorobenzene	971000	5.532			
3114-55-4	Chlorobenzene-d5	956000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	458000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-1-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039192.D	1	09/25/25 19:17	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Quant Time: Sep 26 01:37:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

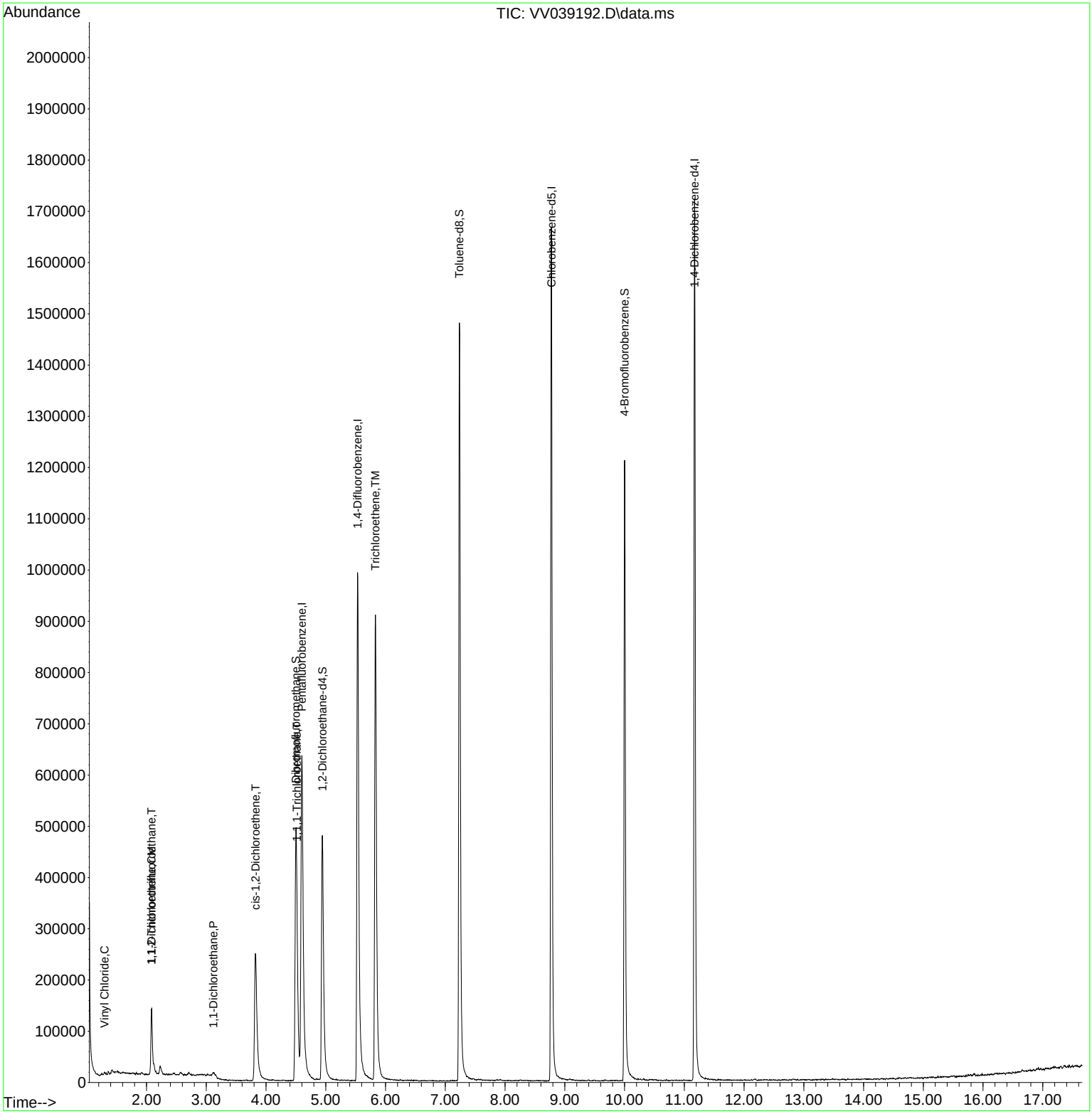
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	535790	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	971101	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	956100	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	458217	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	427676	55.152	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 110.300%			
35) Dibromofluoromethane	4.503	113	398238	51.011	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 102.020%			
50) Toluene-d8	7.236	98	1062986	46.360	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.720%			
62) 4-Bromofluorobenzene	10.001	95	416581	44.133	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.260%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.298	62	2528	0.259	ug/l #	84
9) 1,1,2-Trichlorotrifluo...	2.082	101	6382	0.760	ug/l	97
12) 1,1-Dichloroethene	2.085	96	44339	5.489	ug/l	95
24) 1,1-Dichloroethane	3.117	63	6814	0.404	ug/l #	92
27) cis-1,2-Dichloroethene	3.825	96	154086	16.246	ug/l	88
32) 1,1,1-Trichloroethane	4.516	97	32296	2.116	ug/l	97
44) Trichloroethene	5.831	130	367152	41.396	ug/l	100

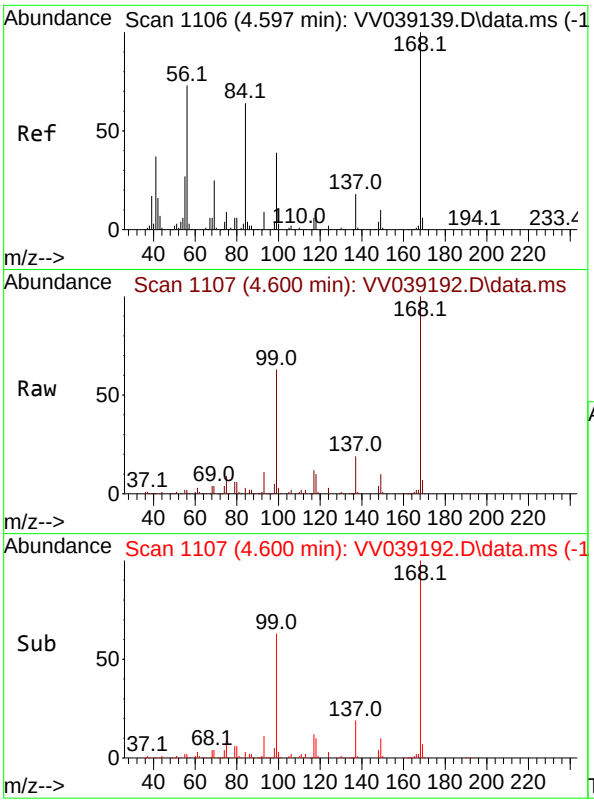
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Quant Time: Sep 26 01:37:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



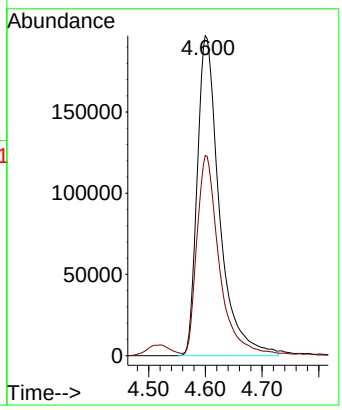


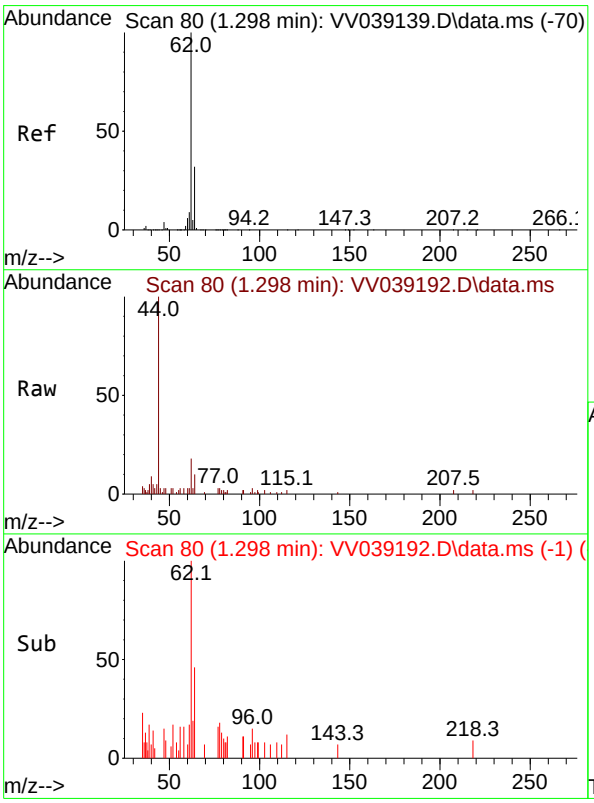
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion:168 Resp: 535790

Ion	Ratio	Lower	Upper
168	100		
99	61.8	49.6	74.4

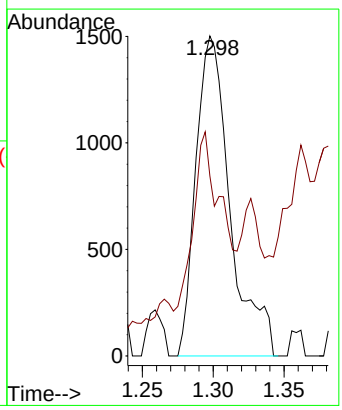


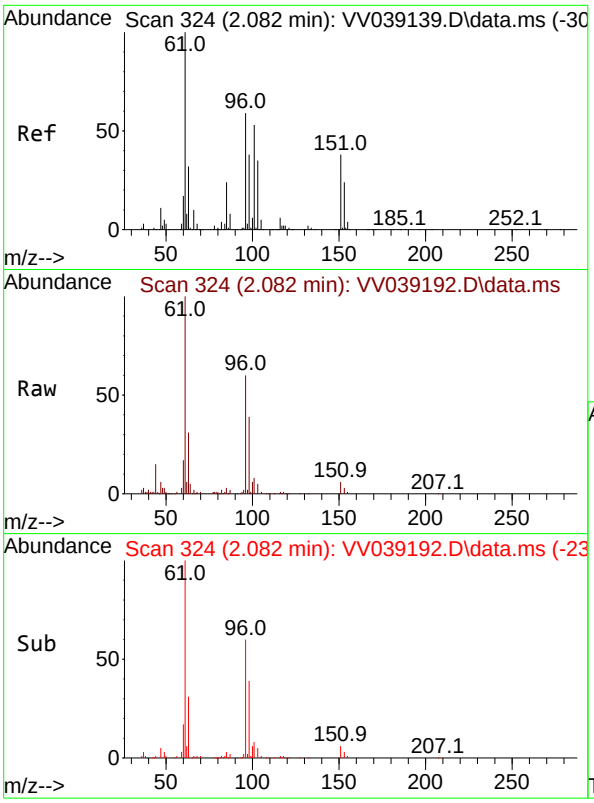


#4
Vinyl Chloride
Concen: 0.259 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 62 Resp: 2528

Ion	Ratio	Lower	Upper
62	100		
64	40.7	25.6	38.4#



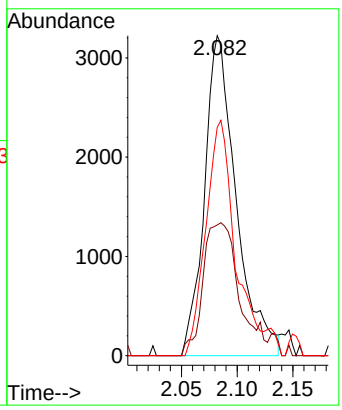


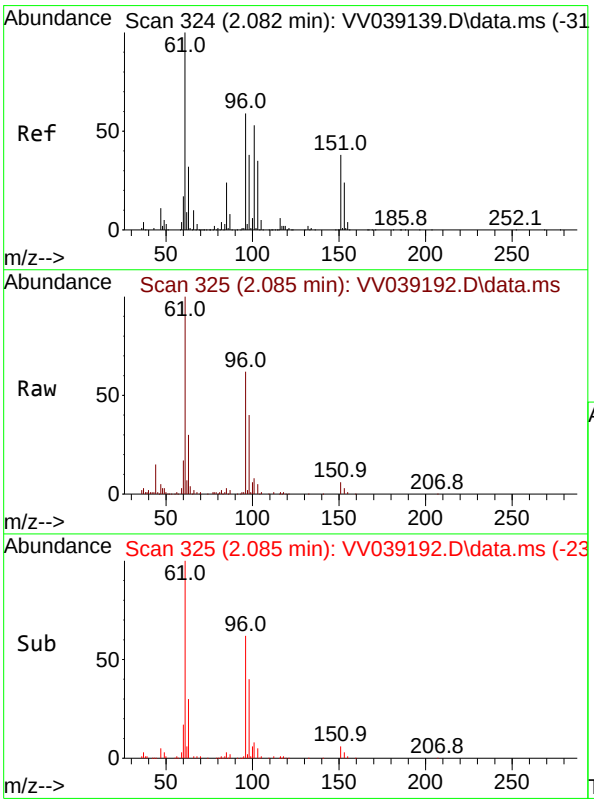
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.760 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion:101 Resp: 6382

Ion	Ratio	Lower	Upper
101	100		
85	47.1	36.2	54.2
151	67.7	56.3	84.5

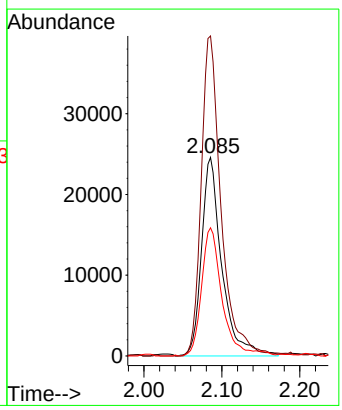


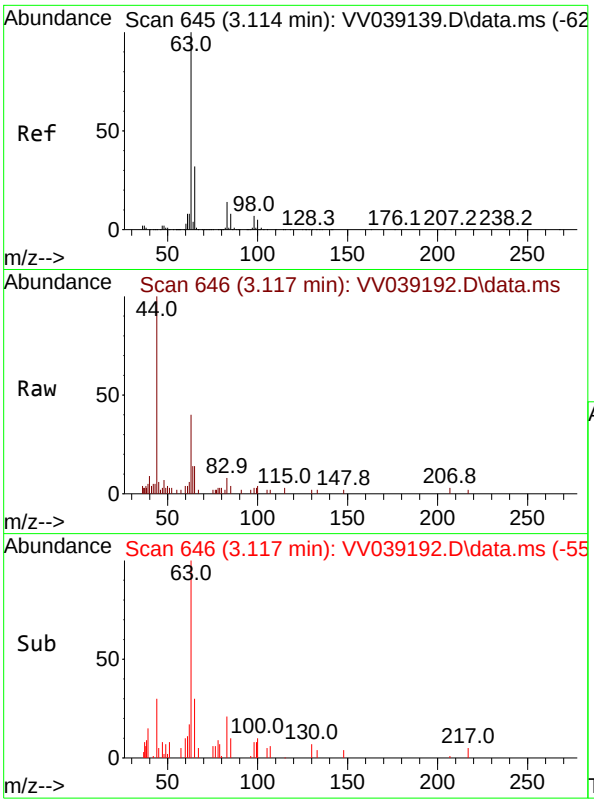


#12
1,1-Dichloroethene
Concen: 5.489 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 96 Resp: 44339

Ion	Ratio	Lower	Upper
96	100		
61	161.2	136.0	204.0
98	64.6	51.0	76.6



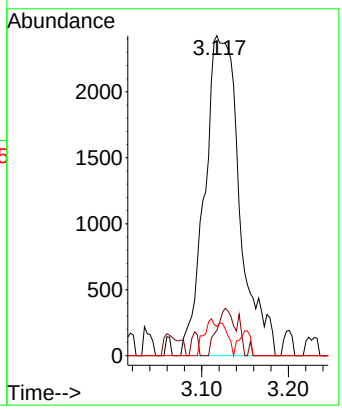


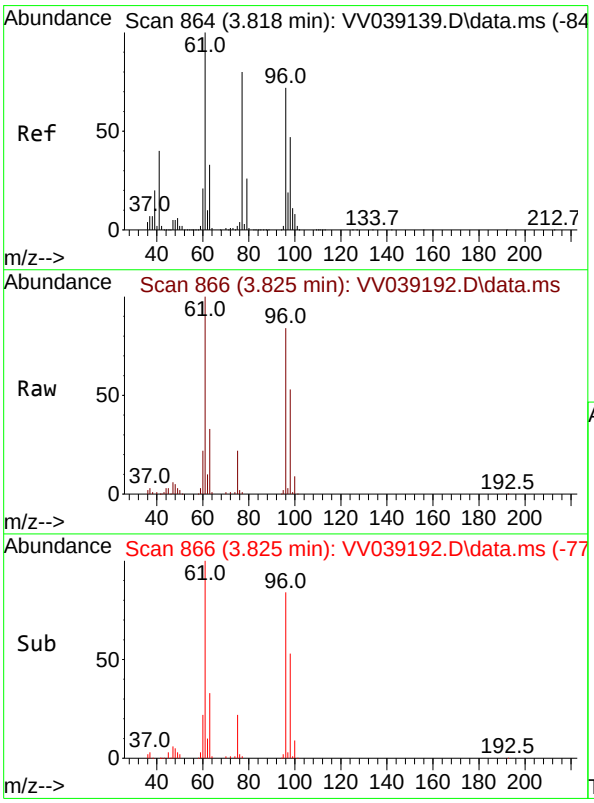
#24
1,1-Dichloroethane
Concen: 0.404 ug/l
RT: 3.117 min Scan# 64
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion: 63 Resp: 6814

Ion	Ratio	Lower	Upper
63	100		
98	8.0	3.4	10.2
100	9.1	2.2	6.6#

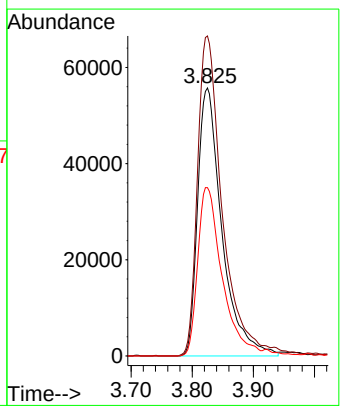


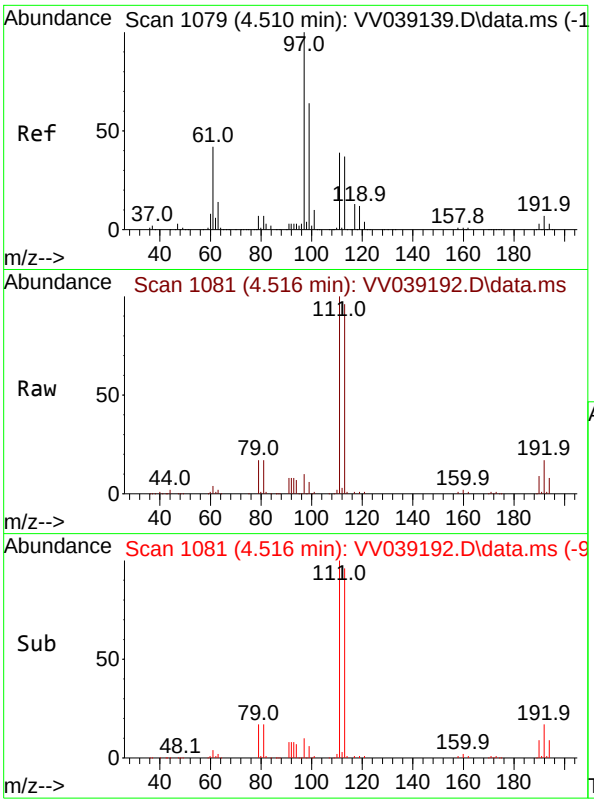


#27
cis-1,2-Dichloroethene
Concen: 16.246 ug/l
RT: 3.825 min Scan# 866
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 96 Resp: 154086

Ion	Ratio	Lower	Upper
96	100		
61	122.8	0.0	286.4
98	62.9	0.0	126.6



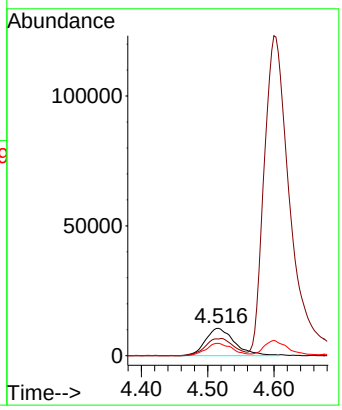


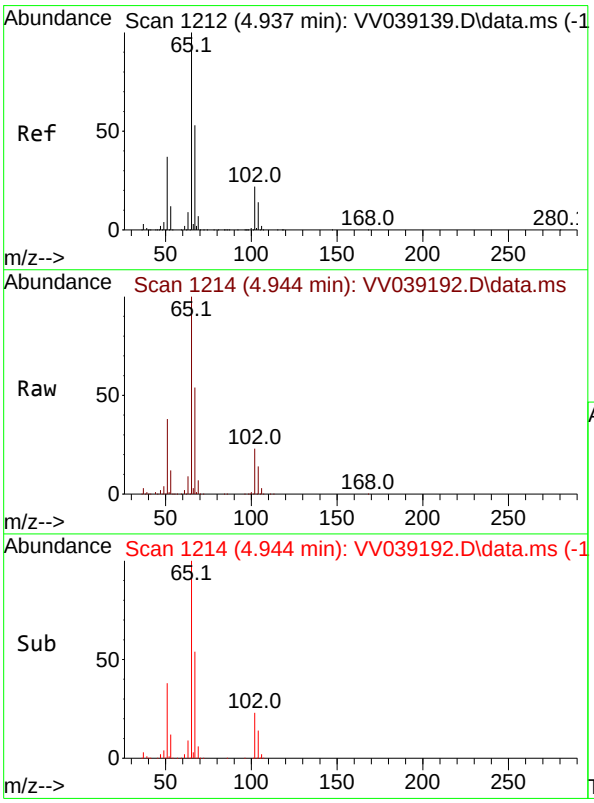
#32
1,1,1-Trichloroethane
Concen: 2.116 ug/l
RT: 4.516 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion: 97 Resp: 32296

Ion	Ratio	Lower	Upper
97	100		
99	60.3	49.6	74.4
61	40.8	34.5	51.7

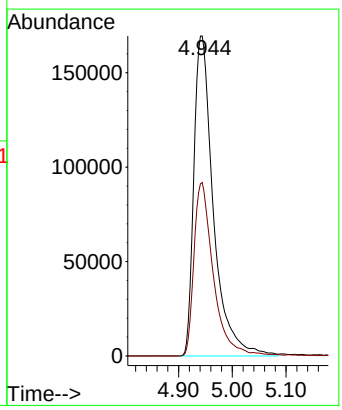


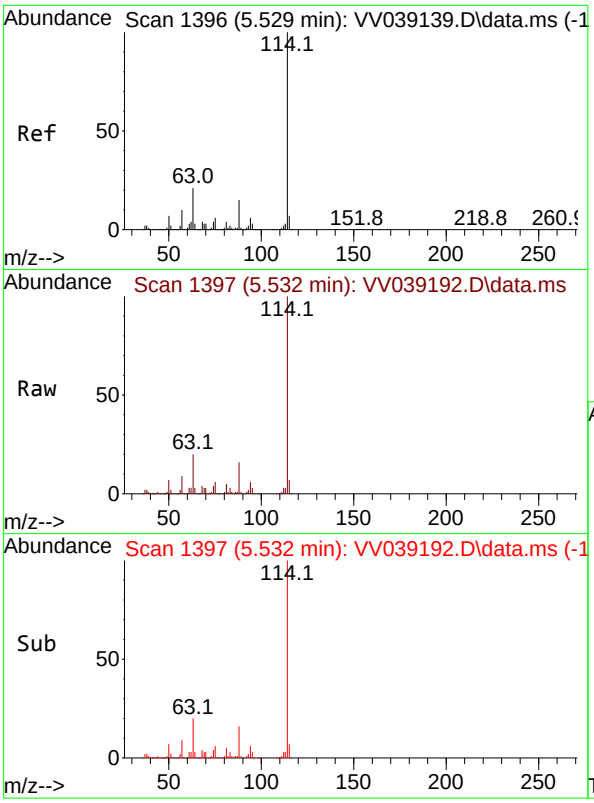


#33
1,2-Dichloroethane-d4
Concen: 55.152 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 65 Resp: 427676

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	107.0



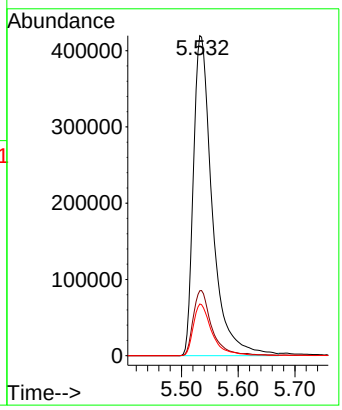


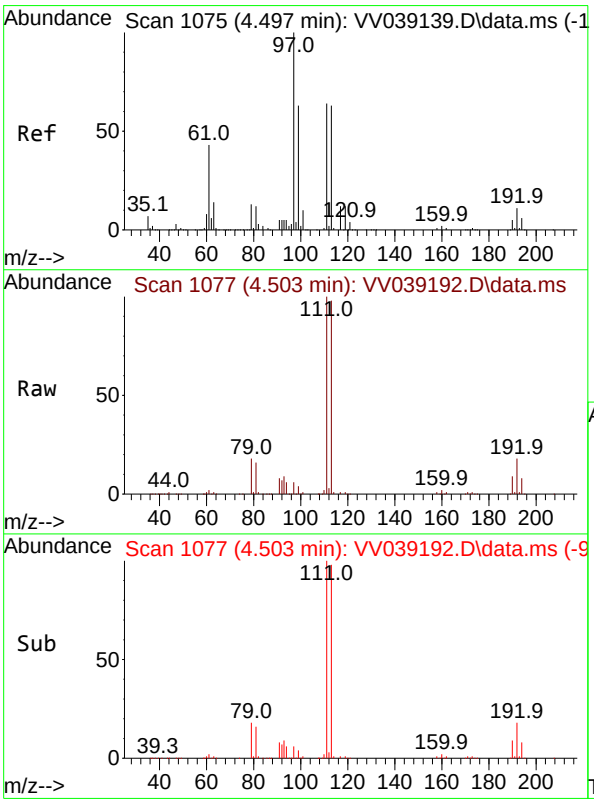
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion:114 Resp: 971101

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	16.1	0.0	30.8

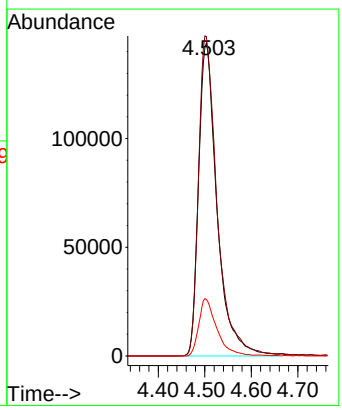


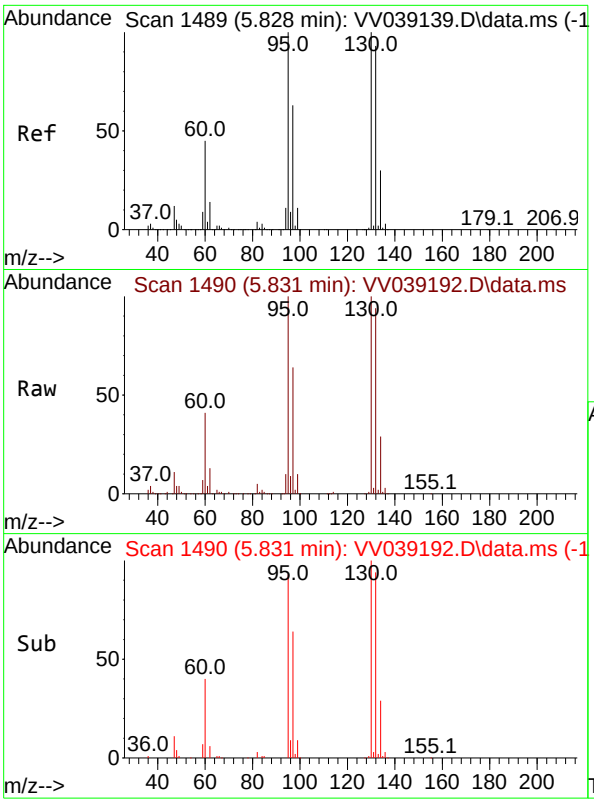


#35
Dibromofluoromethane
Concen: 51.011 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion:113 Resp: 398238

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.4	123.6
192	17.8	13.8	20.8



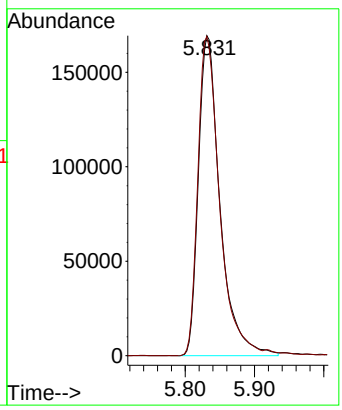


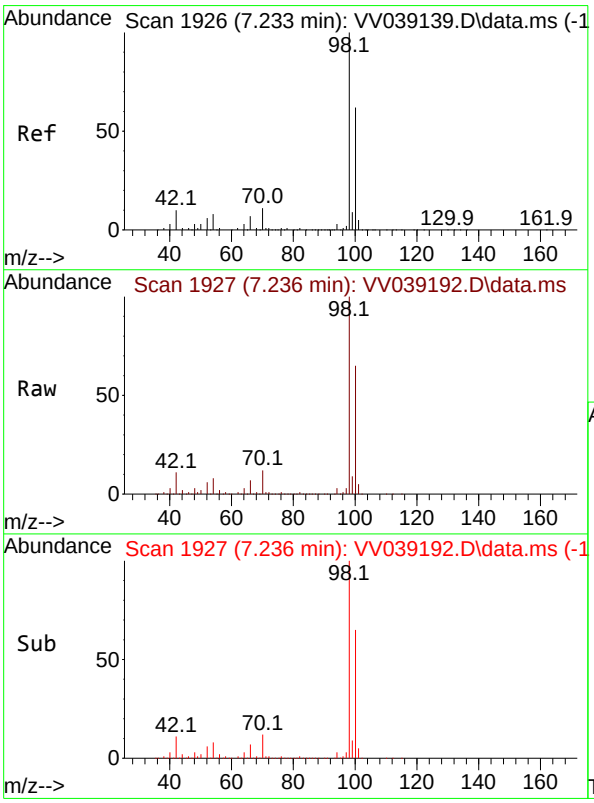
#44
Trichloroethene
Concen: 41.396 ug/l
RT: 5.831 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion:130 Resp: 367152

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	199.2

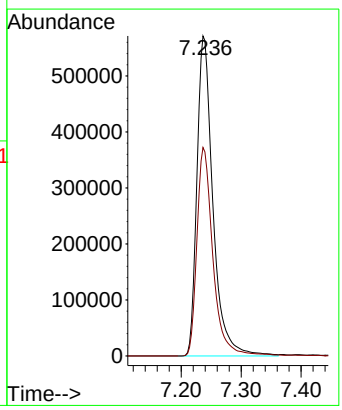


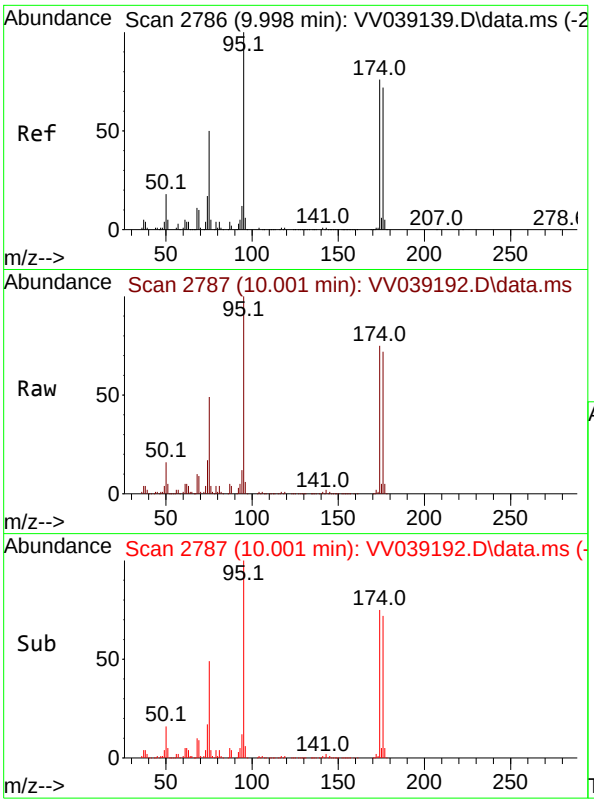


#50
Toluene-d8
Concen: 46.360 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 98 Resp: 1062986

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.2	78.2



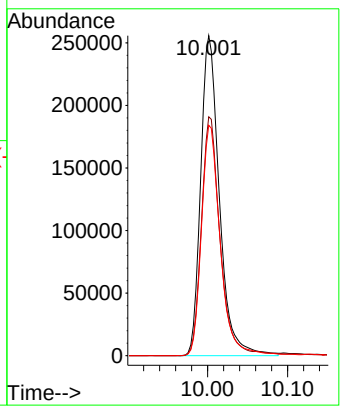


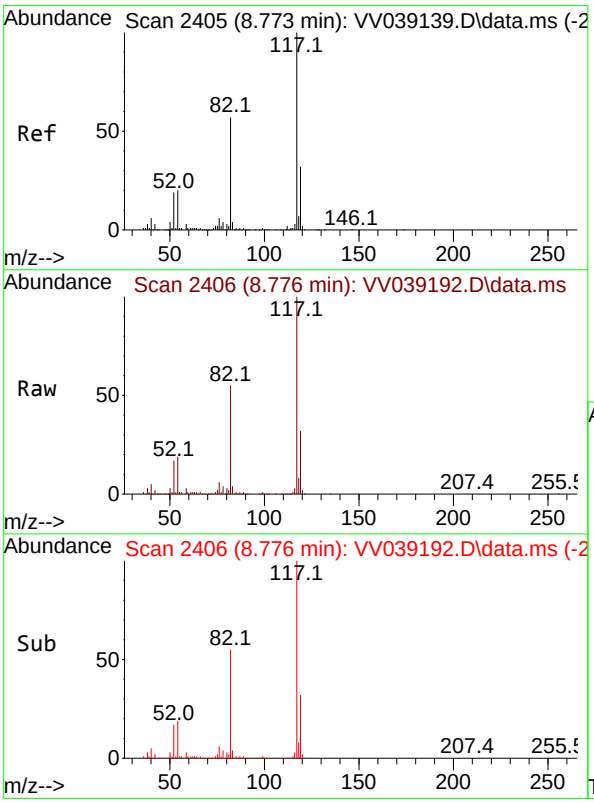
#62
4-Bromofluorobenzene
Concen: 44.133 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion: 95 Resp: 416581

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	150.4
176	72.5	0.0	144.2

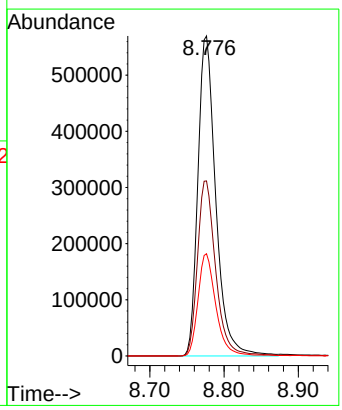


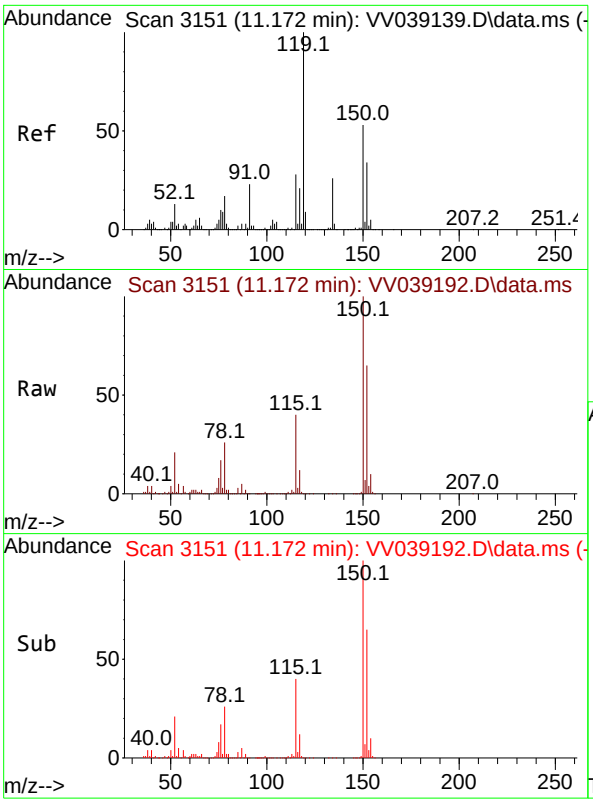


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion:117 Resp: 956100

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.4	68.2
119	31.9	25.6	38.4



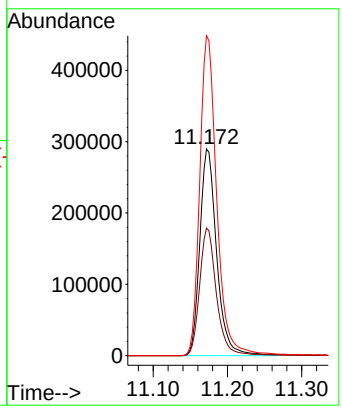


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Tgt Ion:152 Resp: 458217

Ion	Ratio	Lower	Upper
152	100		
115	61.7	44.8	134.4
150	156.4	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039192.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.085	314	325	335	rBV	128019	225524	7.91%	1.133%
2	2.227	363	369	384	rVB3	16157	33672	1.18%	0.169%
3	3.822	849	865	899	rBV	247957	725433	25.44%	3.644%
4	4.503	1062	1077	1095	rBV	494015	1330653	46.66%	6.684%
5	4.600	1096	1107	1147	rVB	626950	1702119	59.69%	8.550%
6	4.944	1200	1214	1257	rBV	476575	1199116	42.05%	6.023%
7	5.532	1386	1397	1439	rBV	991999	2302347	80.74%	11.565%
8	5.831	1477	1490	1520	rBV2	906370	1985486	69.63%	9.973%
9	7.236	1915	1927	1964	rBV	1479566	2788348	97.78%	14.006%
10	8.776	2394	2406	2435	rBV	1665656	2851540	100.00%	14.324%
11	10.001	2777	2787	2815	rBV	1210554	1994389	69.94%	10.018%
12	11.172	3137	3151	3188	rBV	1720463	2769495	97.12%	13.911%

Sum of corrected areas: 19908122

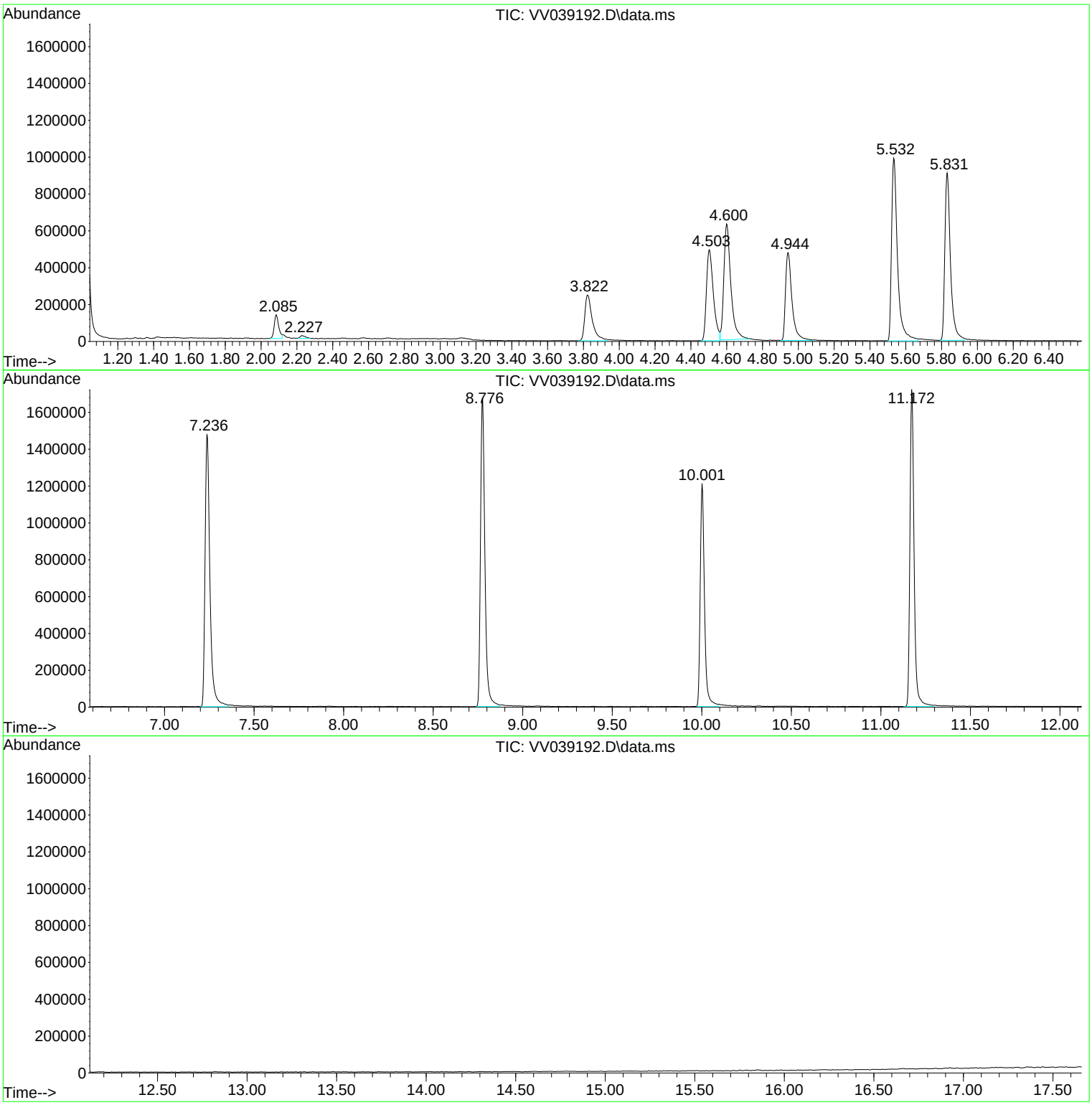
Sample Results: **VV039192.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/15/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-3-091525	SDG No.:	Q3195
Lab Sample ID:	Q3195-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039207.D	1	09/26/25 13:06	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.69	J	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	2.00		0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.60	J	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	J	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	70.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	48.6		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/15/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-3-091525	SDG No.:	Q3195
Lab Sample ID:	Q3195-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039207.D	1	09/26/25 13:06	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.4		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	46.8		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.5		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	600000	4.6			
540-36-3	1,4-Difluorobenzene	1060000	5.532			
3114-55-4	Chlorobenzene-d5	1060000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	513000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/15/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-3-091525	SDG No.:	Q3195
Lab Sample ID:	Q3195-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039207.D	1	09/26/25 13:06	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Quant Time: Sep 27 02:54:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

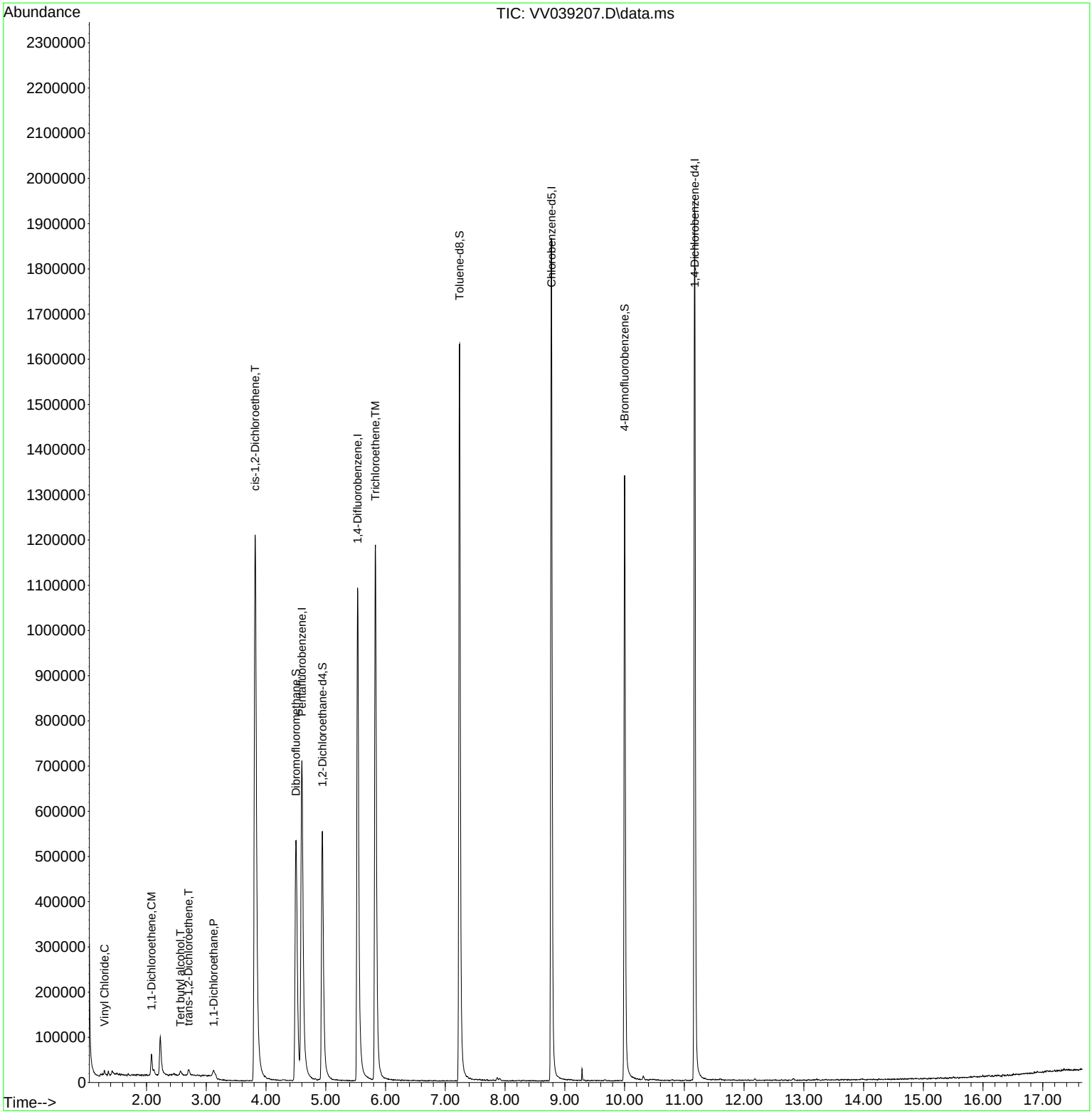
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	599898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1062714	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1062408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	512995	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	489586	56.389	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 112.780%			
35) Dibromofluoromethane	4.503	113	452849	53.006	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 106.020%			
50) Toluene-d8	7.239	98	1175353	46.842	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 93.680%			
62) 4-Bromofluorobenzene	10.001	95	460084	44.540	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.080%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.298	62	7551	0.692	ug/l	95
11) Tert butyl alcohol	2.568	59	3877	2.113	ug/l #	91
12) 1,1-Dichloroethene	2.082	96	18071	1.998	ug/l	91
21) trans-1,2-Dichloroethene	2.703	96	5753	0.597	ug/l	96
24) 1,1-Dichloroethane	3.124	63	12888	0.682	ug/l #	94
27) cis-1,2-Dichloroethene	3.818	96	749183	70.547	ug/l	87
44) Trichloroethene	5.831	130	472103	48.641	ug/l	97

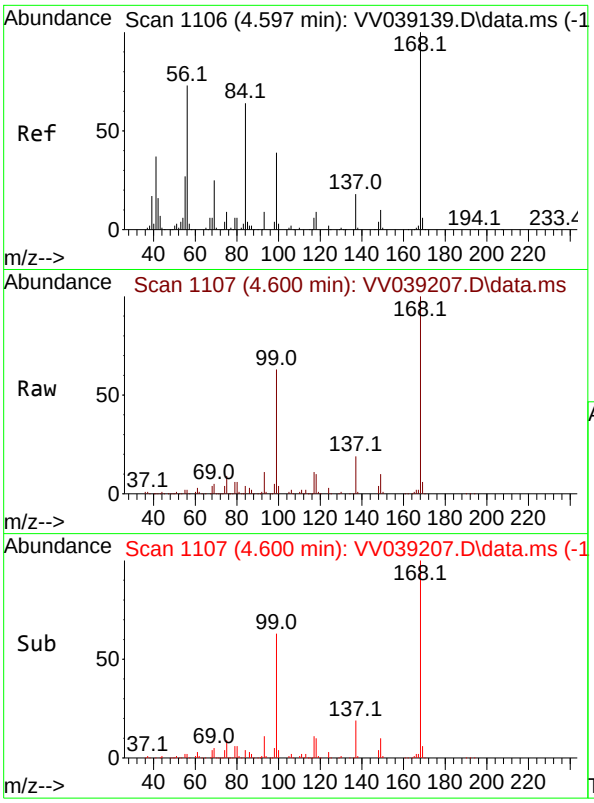
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Quant Time: Sep 27 02:54:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



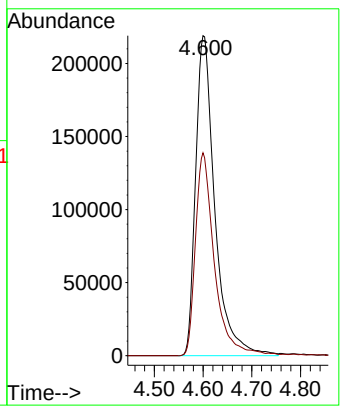


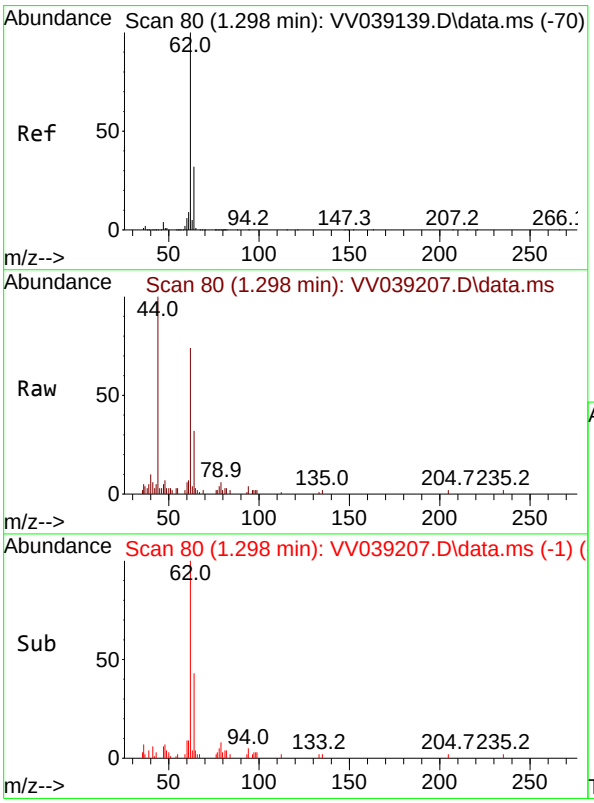
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion:168 Resp: 599898

Ion	Ratio	Lower	Upper
168	100		
99	63.4	49.6	74.4

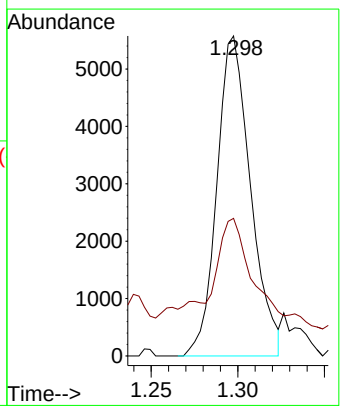


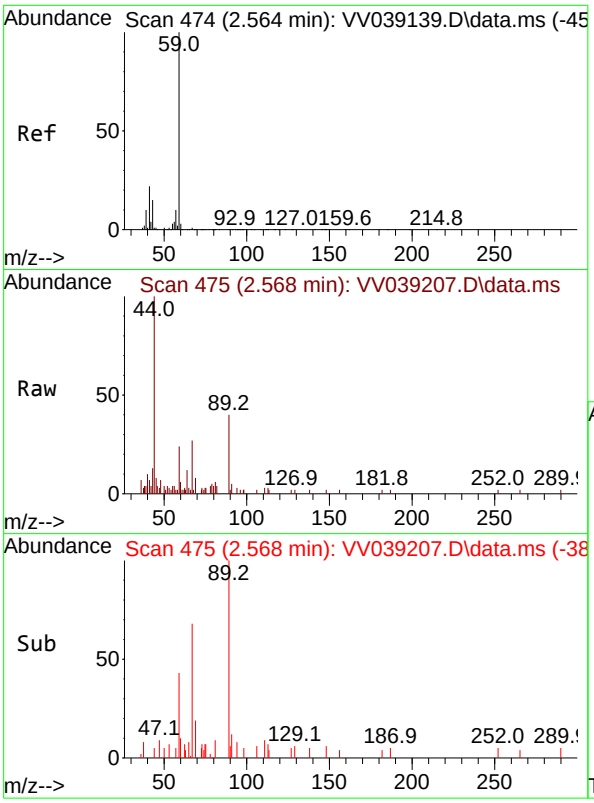


#4
Vinyl Chloride
Concen: 0.692 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 62 Resp: 7551

Ion	Ratio	Lower	Upper
62	100		
64	29.2	25.6	38.4



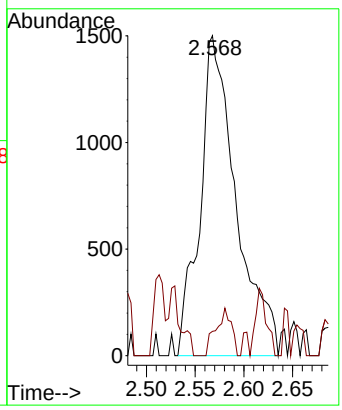


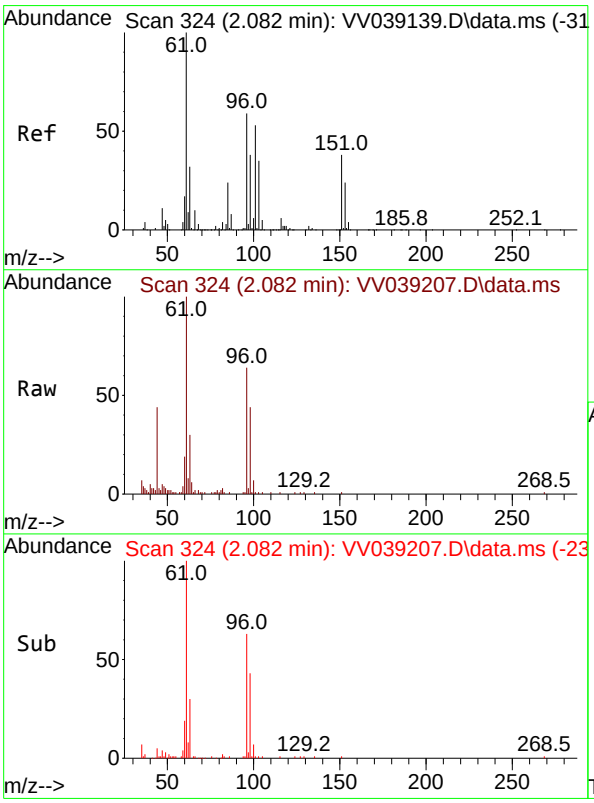
#11
Tert butyl alcohol
Concen: 2.113 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion: 59 Resp: 3877

Ion	Ratio	Lower	Upper
59	100		
57	6.3	7.8	11.8#

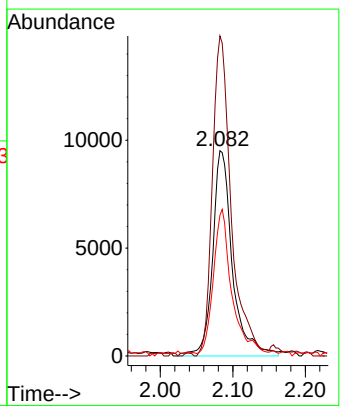


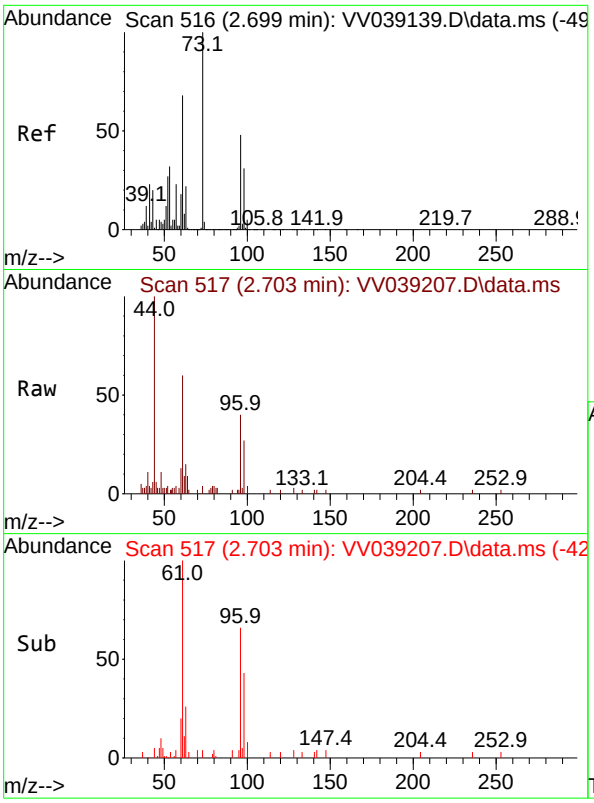


#12
1,1-Dichloroethene
Concen: 1.998 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 96 Resp: 18071

Ion	Ratio	Lower	Upper
96	100		
61	155.9	136.0	204.0
98	67.2	51.0	76.6



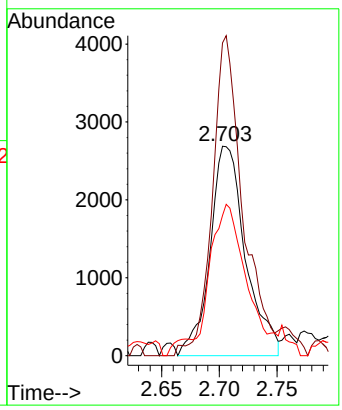


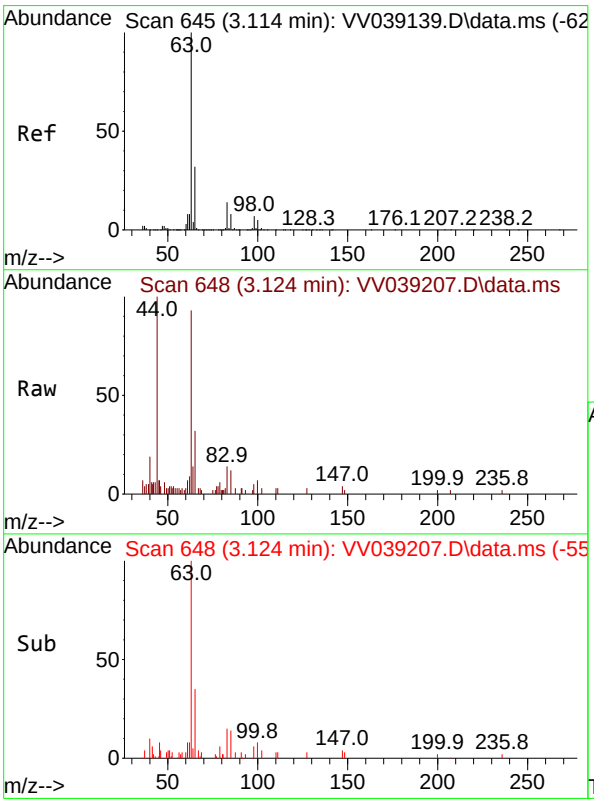
#21
trans-1,2-Dichloroethene
Concen: 0.597 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion: 96 Resp: 5753

Ion	Ratio	Lower	Upper
96	100		
61	144.5	112.8	169.2
98	59.7	51.1	76.7

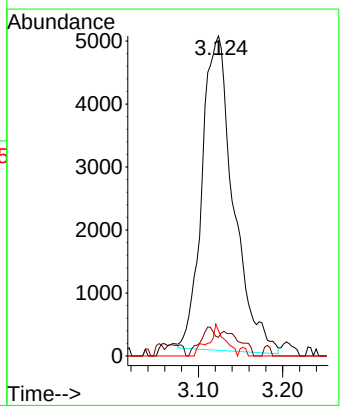


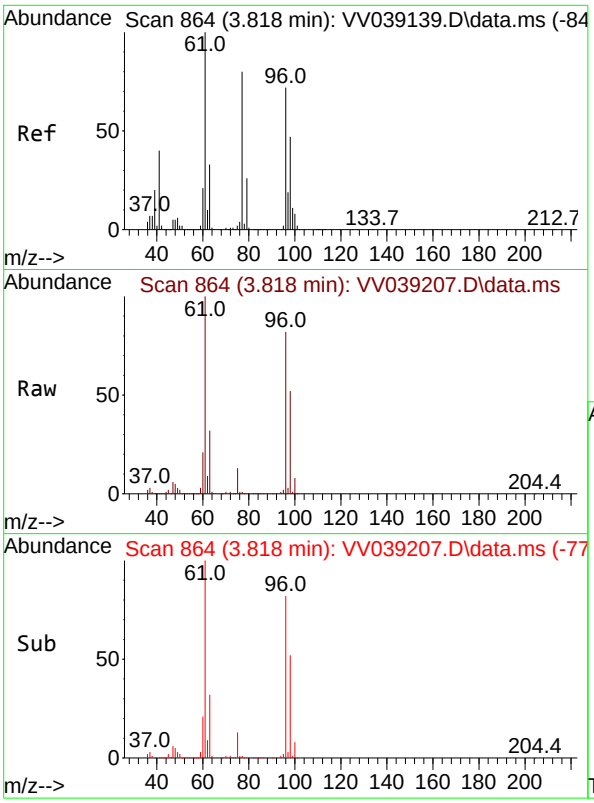


#24
1,1-Dichloroethane
Concen: 0.682 ug/l
RT: 3.124 min Scan# 648
Delta R.T. 0.010 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 63 Resp: 12888

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.4	10.2
100	8.1	2.2	6.6#



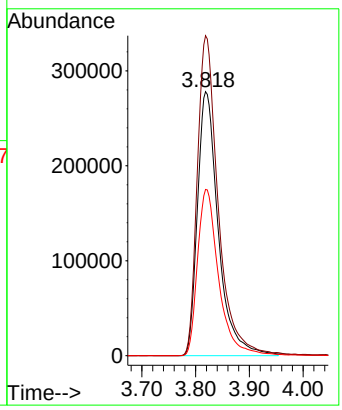


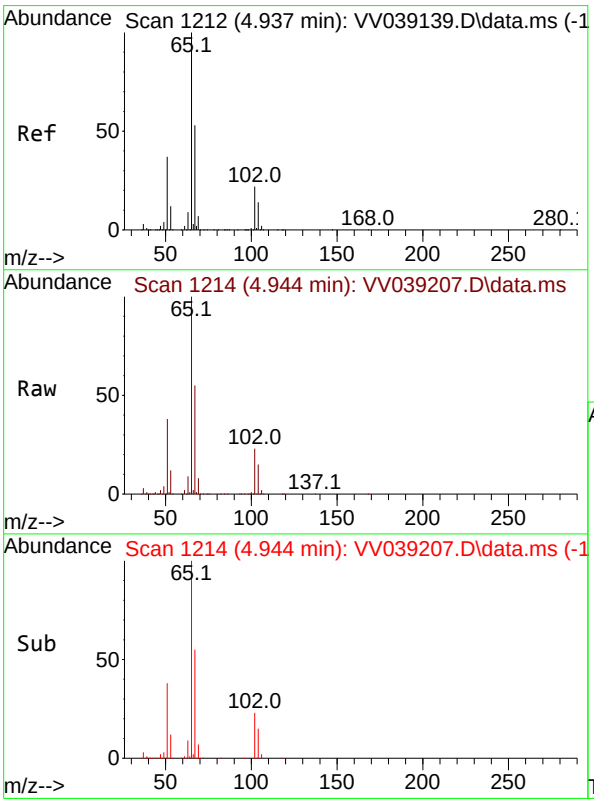
#27
cis-1,2-Dichloroethene
Concen: 70.547 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion: 96 Resp: 749183

Ion	Ratio	Lower	Upper
96	100		
61	121.2	0.0	286.4
98	63.9	0.0	126.6

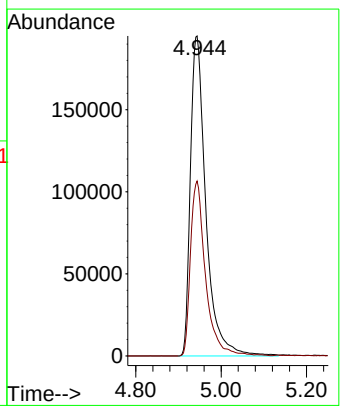


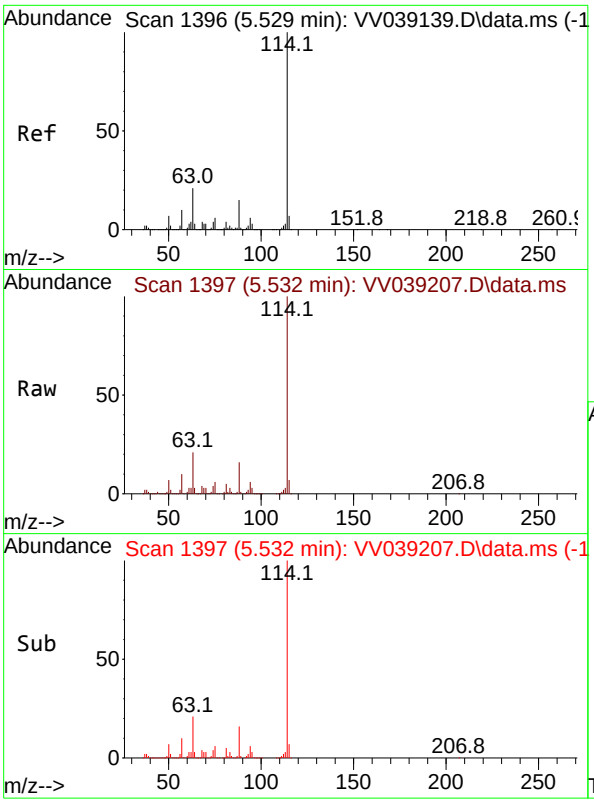


#33
1,2-Dichloroethane-d4
Concen: 56.389 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 65 Resp: 489586

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	107.0



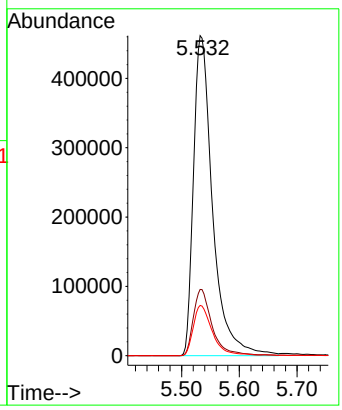


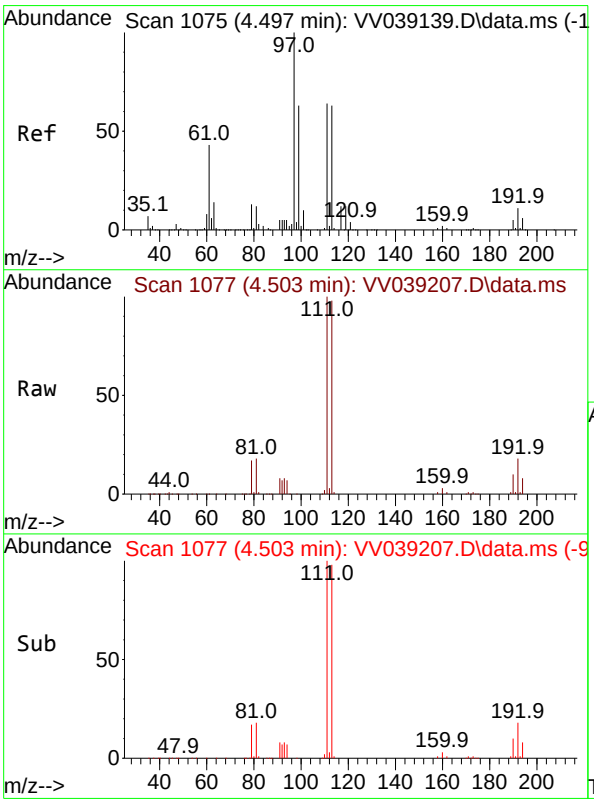
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion:114 Resp: 1062714

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	42.6
88	15.7	0.0	30.8

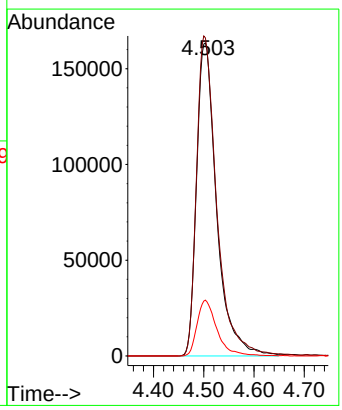


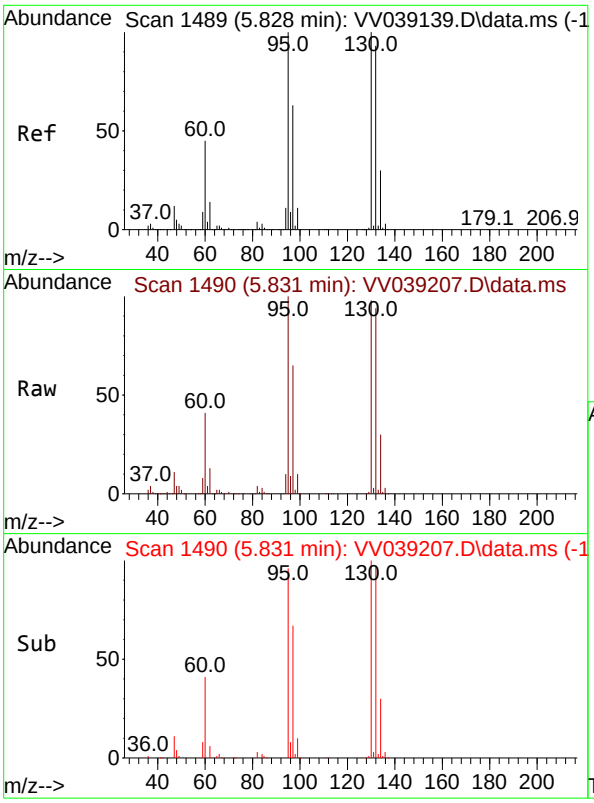


#35
Dibromofluoromethane
Concen: 53.006 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion:113 Resp: 452849

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	17.6	13.8	20.8



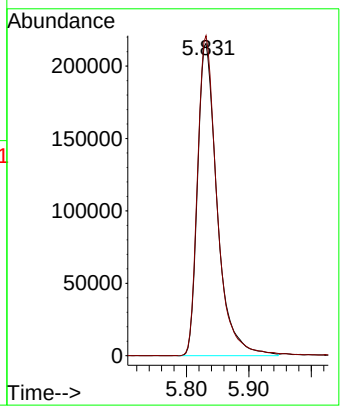


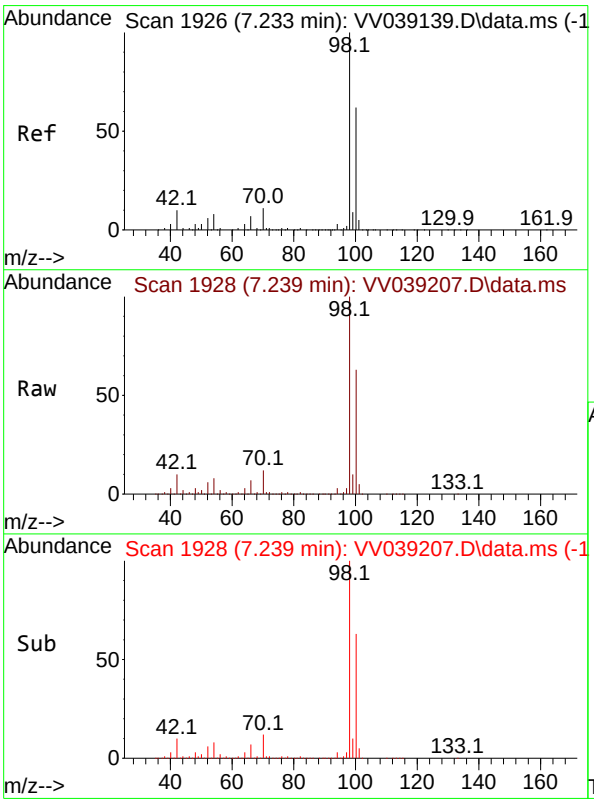
#44
Trichloroethene
Concen: 48.641 ug/l
RT: 5.831 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion:130 Resp: 472103

Ion	Ratio	Lower	Upper
130	100		
95	102.5	0.0	199.2

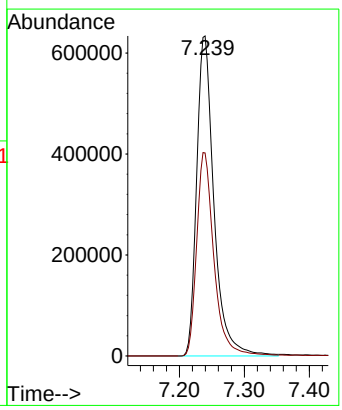


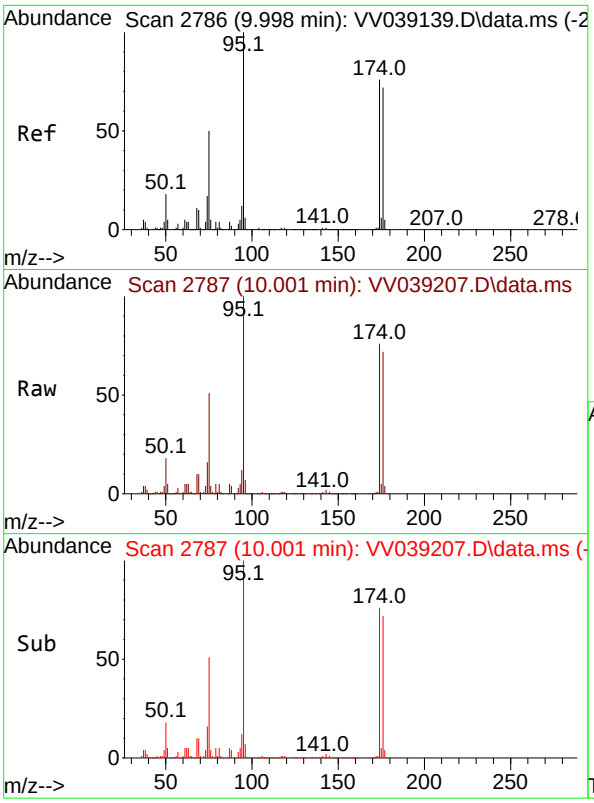


#50
Toluene-d8
Concen: 46.842 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 98 Resp: 1175353

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.2	78.2



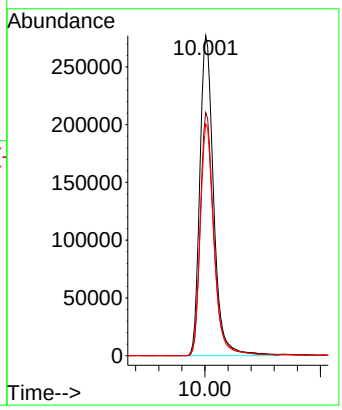


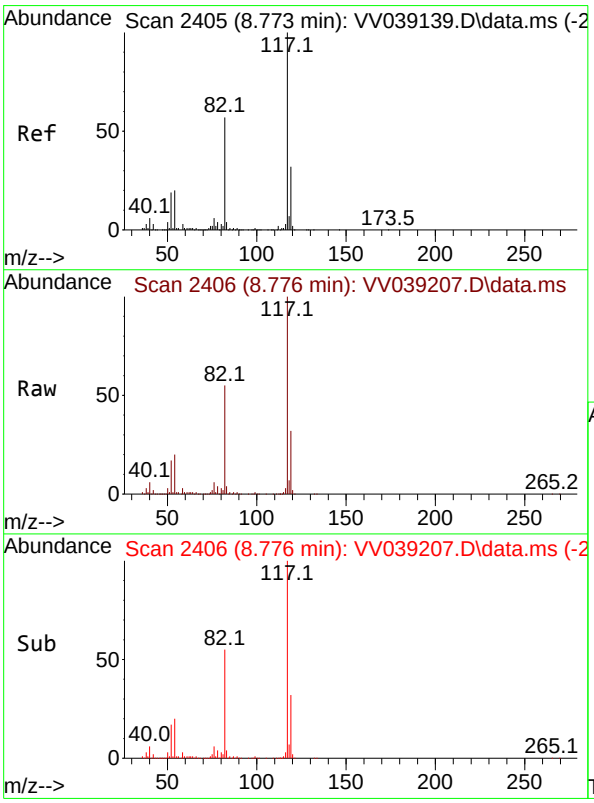
#62
4-Bromofluorobenzene
Concen: 44.540 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion: 95 Resp: 460084

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	150.4
176	71.7	0.0	144.2

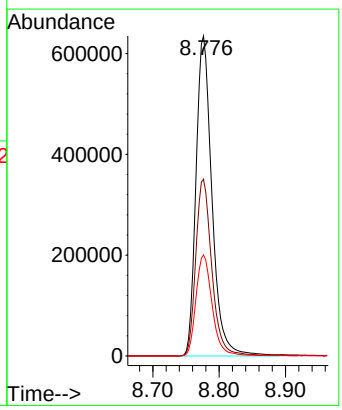


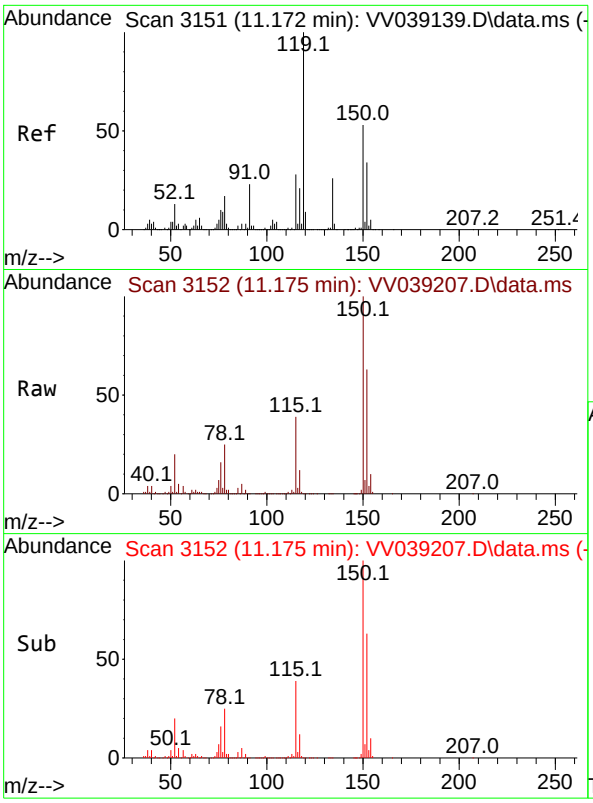


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion:117 Resp: 1062408

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.4	68.2
119	31.6	25.6	38.4



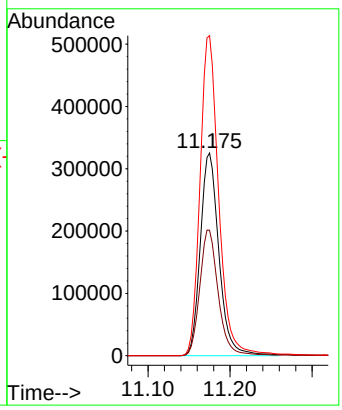


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Tgt Ion:152 Resp: 512995

Ion	Ratio	Lower	Upper
152	100		
115	61.4	44.8	134.4
150	159.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039207.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.082	315	324	334	rBV2	45946	80131	2.37%	0.318%
2	2.230	361	370	388	rBV	82327	167263	4.96%	0.665%
3	3.124	638	648	668	rVB4	19424	65148	1.93%	0.259%
4	3.818	848	864	913	rBV2	1208122	3374322	100.00%	13.408%
5	4.503	1057	1077	1095	rBV2	532037	1419352	42.06%	5.640%
6	4.600	1095	1107	1156	rVB	703810	1951526	57.83%	7.755%
7	4.944	1200	1214	1255	rBV	549277	1358900	40.27%	5.400%
8	5.532	1385	1397	1450	rBV	1090352	2550571	75.59%	10.135%
9	5.831	1477	1490	1528	rBV	1181957	2591587	76.80%	10.298%
10	7.239	1915	1928	1963	rBV	1630772	3070851	91.01%	12.202%
11	8.776	2394	2406	2448	rBV	1864078	3193515	94.64%	12.690%
12	10.001	2776	2787	2826	rBV	1338773	2234748	66.23%	8.880%
13	11.175	3140	3152	3181	rBV	1949581	3108398	92.12%	12.351%

Sum of corrected areas: 25166312

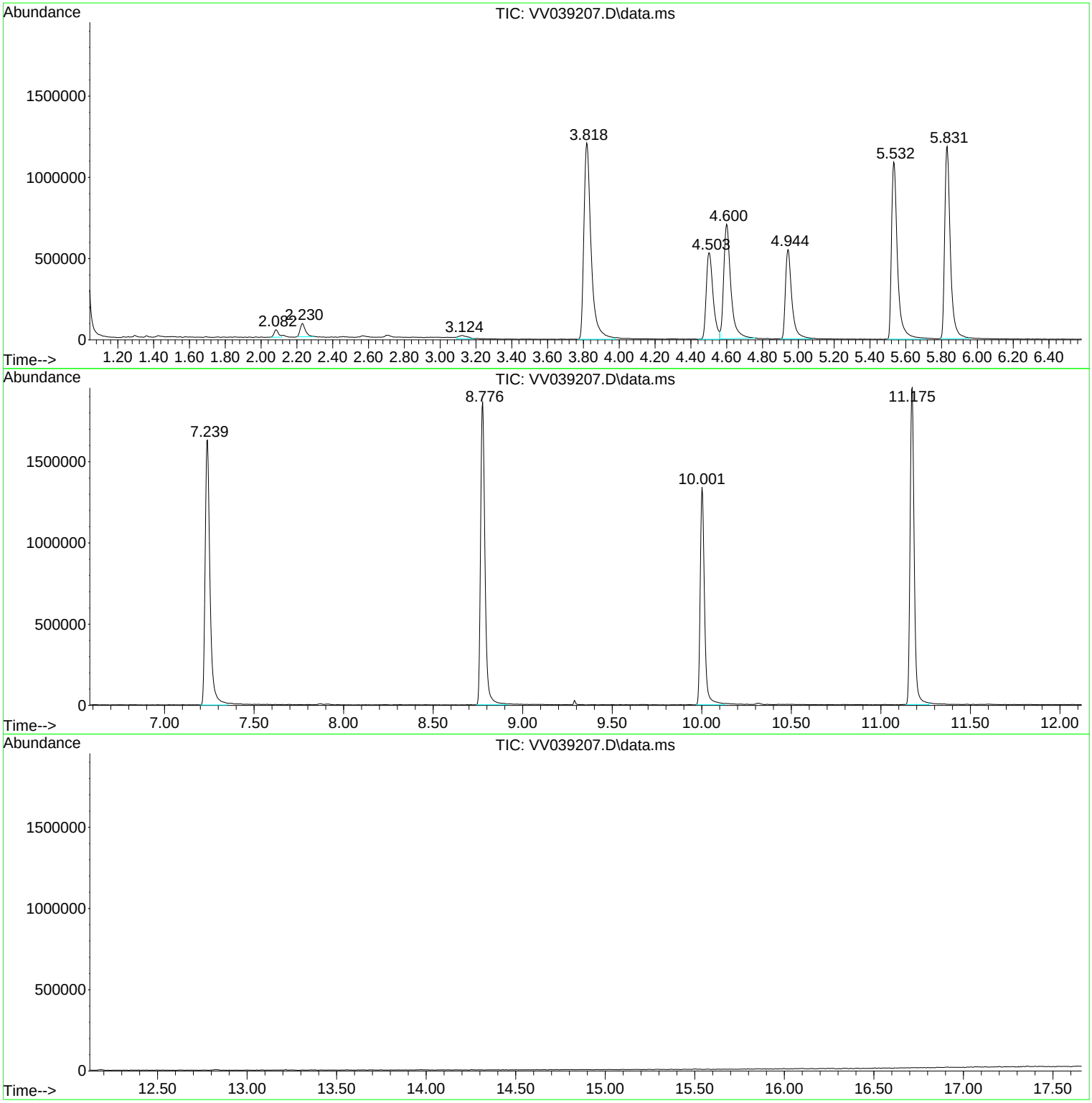
Sample Results: **VV039207.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/16/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-4-091625	SDG No.:	Q3195
Lab Sample ID:	Q3195-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039205.D	100	09/26/25 12:21	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	22.0	U	22.0	100	ug/L
74-87-3	Chloromethane	32.0	U	32.0	100	ug/L
75-01-4	Vinyl Chloride	26.0	U	26.0	100	ug/L
74-83-9	Bromomethane	140	U	140	500	ug/L
75-00-3	Chloroethane	47.0	U	47.0	100	ug/L
75-69-4	Trichlorofluoromethane	33.0	U	33.0	100	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	25.0	U	25.0	100	ug/L
75-35-4	1,1-Dichloroethene	150		23.0	100	ug/L
67-64-1	Acetone	150	U	150	500	ug/L
75-15-0	Carbon Disulfide	21.0	U	21.0	100	ug/L
1634-04-4	Methyl tert-butyl Ether	16.0	U	16.0	100	ug/L
79-20-9	Methyl Acetate	27.0	U	27.0	100	ug/L
75-09-2	Methylene Chloride	28.0	U	28.0	100	ug/L
156-60-5	trans-1,2-Dichloroethene	23.0	U	23.0	100	ug/L
75-34-3	1,1-Dichloroethane	23.0	U	23.0	100	ug/L
110-82-7	Cyclohexane	150	U	150	500	ug/L
78-93-3	2-Butanone	98.0	U	98.0	500	ug/L
56-23-5	Carbon Tetrachloride	25.0	U	25.0	100	ug/L
156-59-2	cis-1,2-Dichloroethene	1600		19.0	100	ug/L
74-97-5	Bromochloromethane	22.0	U	22.0	100	ug/L
67-66-3	Chloroform	25.0	U	25.0	100	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	20.0	100	ug/L
108-87-2	Methylcyclohexane	16.0	U	16.0	100	ug/L
71-43-2	Benzene	15.0	U	15.0	100	ug/L
107-06-2	1,2-Dichloroethane	22.0	U	22.0	100	ug/L
79-01-6	Trichloroethene	9500		9.30	100	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	20.0	100	ug/L
75-27-4	Bromodichloromethane	22.0	U	22.0	100	ug/L
108-10-1	4-Methyl-2-Pentanone	68.0	U	68.0	500	ug/L
108-88-3	Toluene	14.0	U	14.0	100	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/16/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-4-091625	SDG No.:	Q3195
Lab Sample ID:	Q3195-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039205.D	100	09/26/25 12:21	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.0	U	17.0	100	ug/L
10061-01-5	cis-1,3-Dichloropropene	16.0	U	16.0	100	ug/L
79-00-5	1,1,2-Trichloroethane	21.0	U	21.0	100	ug/L
591-78-6	2-Hexanone	89.0	U	89.0	500	ug/L
124-48-1	Dibromochloromethane	18.0	U	18.0	100	ug/L
106-93-4	1,2-Dibromoethane	15.0	U	15.0	100	ug/L
127-18-4	Tetrachloroethene	23.0	U	23.0	100	ug/L
108-90-7	Chlorobenzene	12.0	U	12.0	100	ug/L
100-41-4	Ethyl Benzene	13.0	U	13.0	100	ug/L
179601-23-1	m/p-Xylenes	24.0	U	24.0	200	ug/L
95-47-6	o-Xylene	12.0	U	12.0	100	ug/L
100-42-5	Styrene	15.0	U	15.0	100	ug/L
75-25-2	Bromoform	19.0	U	19.0	100	ug/L
98-82-8	Isopropylbenzene	12.0	U	12.0	100	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	26.0	U	26.0	100	ug/L
541-73-1	1,3-Dichlorobenzene	16.0	U	16.0	100	ug/L
106-46-7	1,4-Dichlorobenzene	19.0	U	19.0	100	ug/L
95-50-1	1,2-Dichlorobenzene	16.0	U	16.0	100	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	53.0	U	53.0	100	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	20.0	100	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0	U	20.0	100	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.0		74 - 125	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	46.2		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.1		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	514000	4.6			
540-36-3	1,4-Difluorobenzene	924000	5.535			
3114-55-4	Chlorobenzene-d5	912000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	438000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/16/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-4-091625	SDG No.:	Q3195
Lab Sample ID:	Q3195-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039205.D	100	09/26/25 12:21	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Quant Time: Sep 27 02:53:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

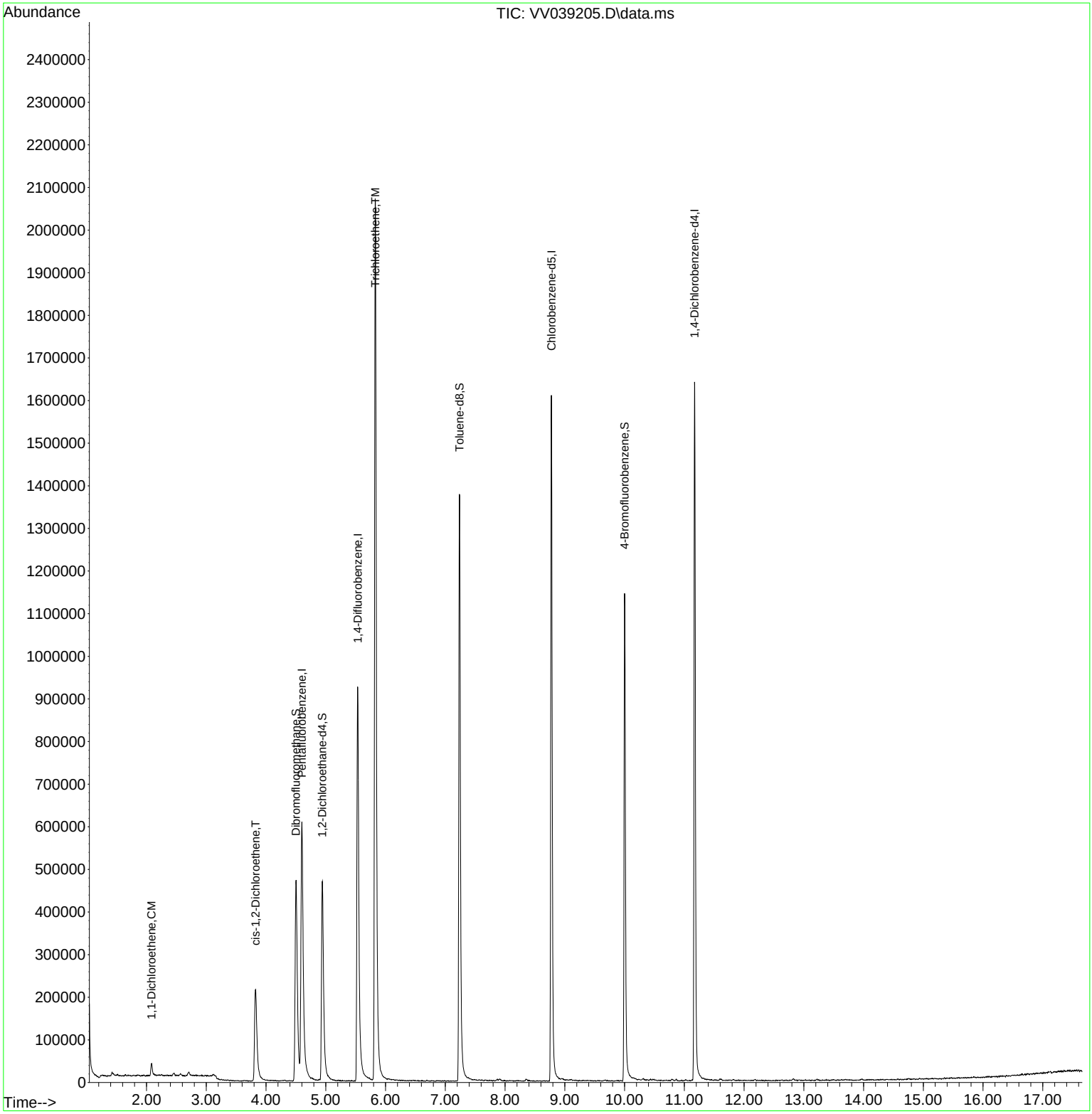
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	513652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	924164	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	911885	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	438479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	416085	55.970	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 111.940%			
35) Dibromofluoromethane	4.503	113	392713	52.858	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 105.720%			
50) Toluene-d8	7.239	98	1008875	46.235	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.460%			
62) 4-Bromofluorobenzene	10.001	95	396215	44.107	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.220%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	2.082	96	11345	1.465	ug/l	96
27) cis-1,2-Dichloroethene	3.825	96	144878	15.933	ug/l	87
44) Trichloroethene	5.831	130	804569	95.322	ug/l	99

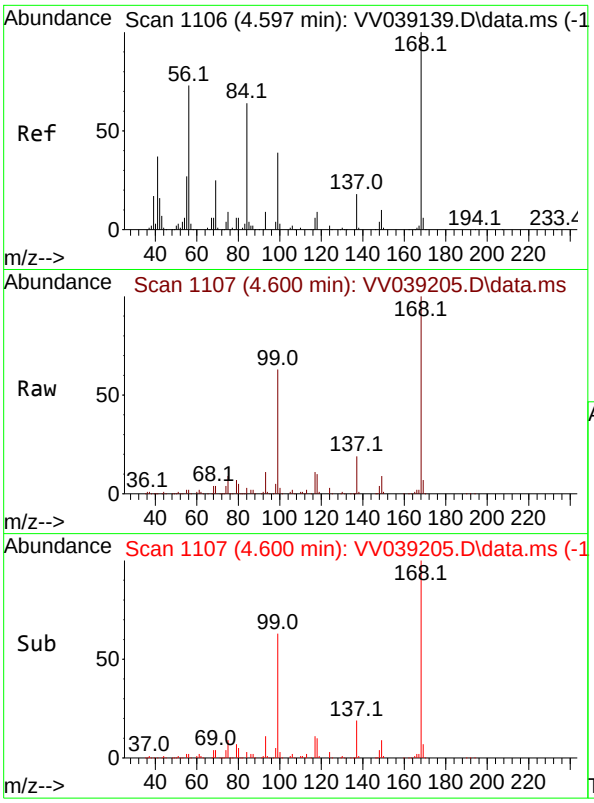
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Quant Time: Sep 27 02:53:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



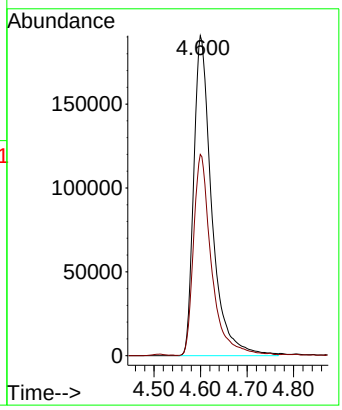


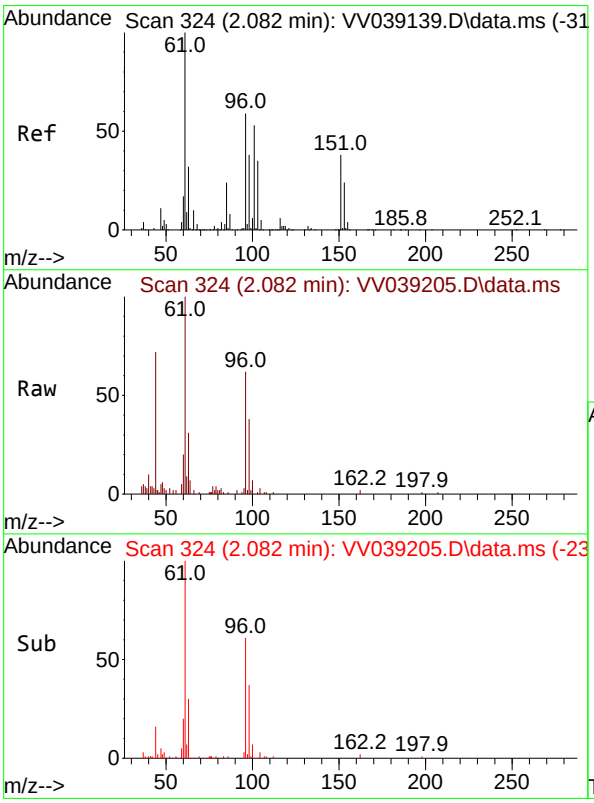
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Tgt Ion:168 Resp: 513652

Ion	Ratio	Lower	Upper
168	100		
99	62.8	49.6	74.4

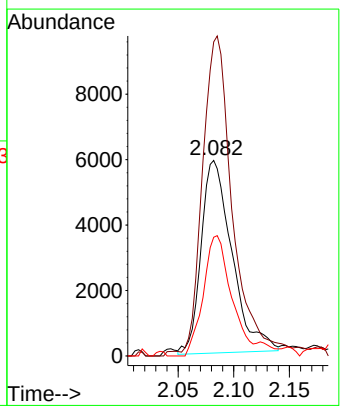


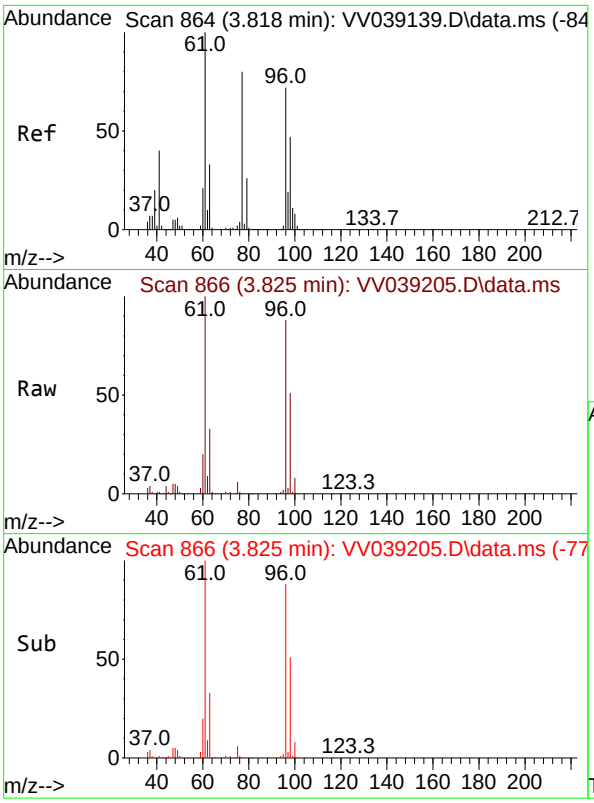


#12
1,1-Dichloroethene
Concen: 1.465 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 96 Resp: 11345

Ion	Ratio	Lower	Upper
96	100		
61	162.8	136.0	204.0
98	62.4	51.0	76.6



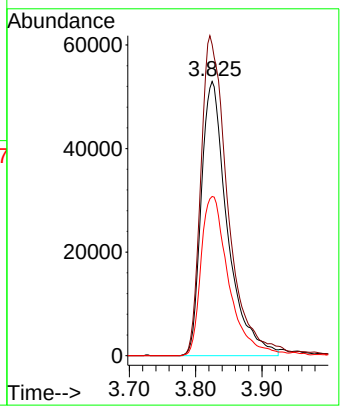


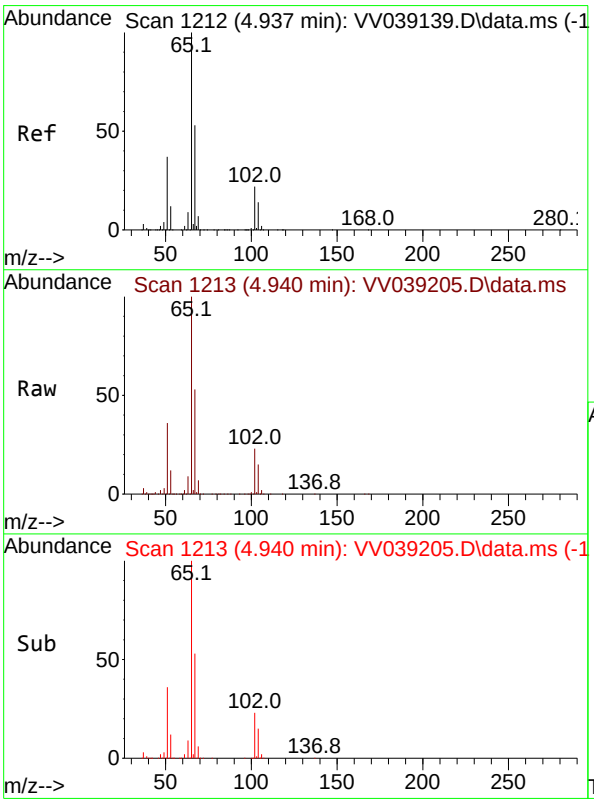
#27
cis-1,2-Dichloroethene
Concen: 15.933 ug/l
RT: 3.825 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Tgt Ion: 96 Resp: 144878

Ion	Ratio	Lower	Upper
96	100		
61	120.7	0.0	286.4
98	61.8	0.0	126.6

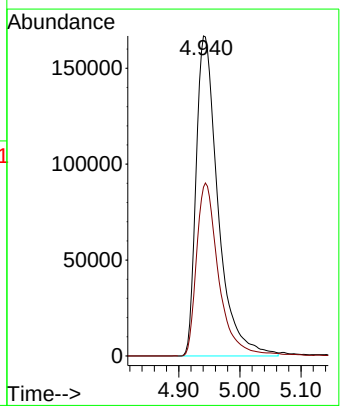


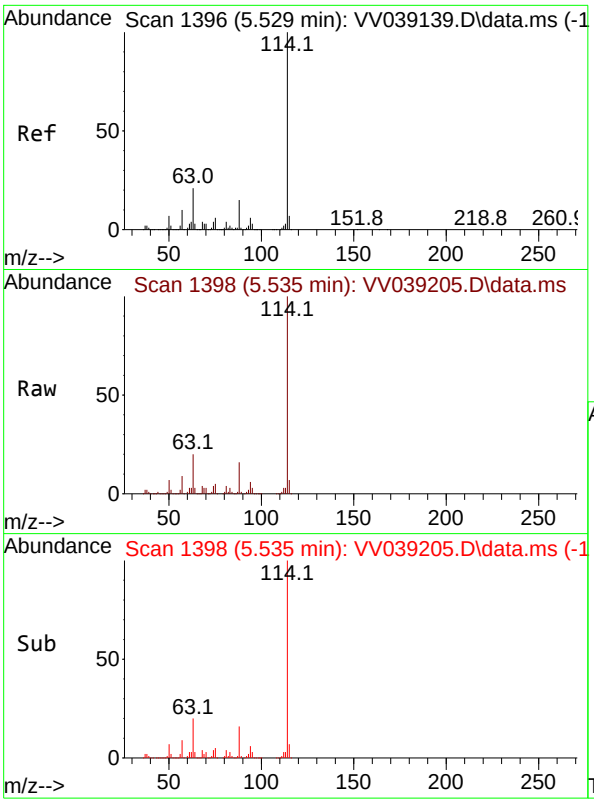


#33
1,2-Dichloroethane-d4
Concen: 55.970 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 65 Resp: 416085

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	107.0



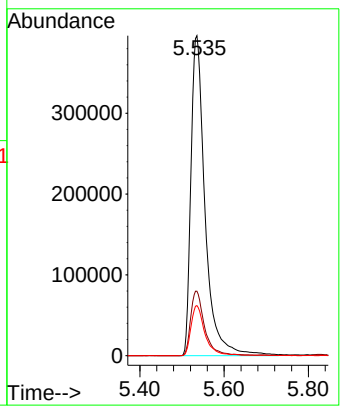


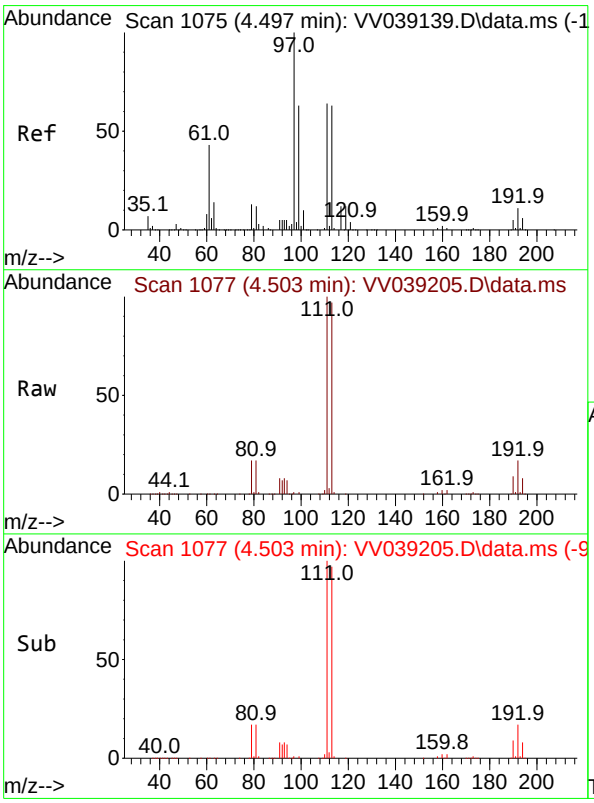
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Tgt Ion:114 Resp: 924164

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.6
88	15.7	0.0	30.8

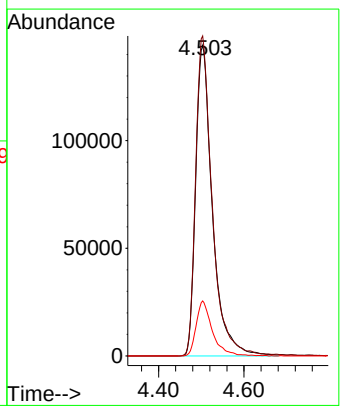


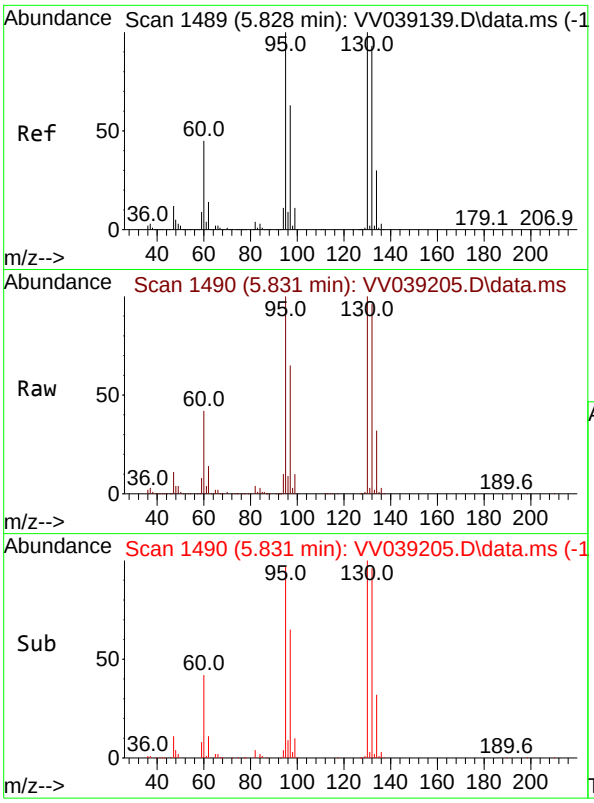


#35
Dibromofluoromethane
Concen: 52.858 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion:113 Resp: 392713

Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.4	123.6
192	17.1	13.8	20.8



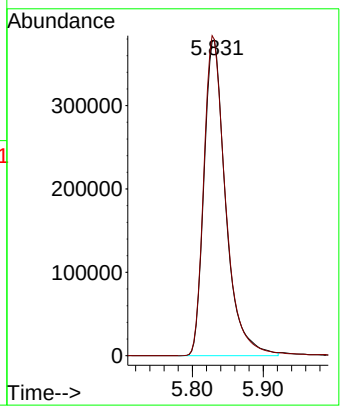


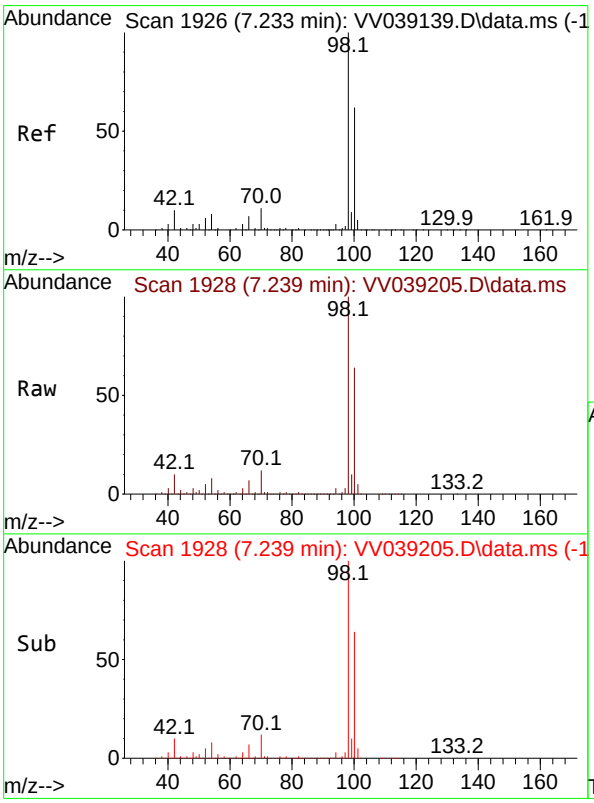
#44
Trichloroethene
Concen: 95.322 ug/l
RT: 5.831 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Tgt Ion:130 Resp: 804569

Ion	Ratio	Lower	Upper
130	100		
95	100.1	0.0	199.2

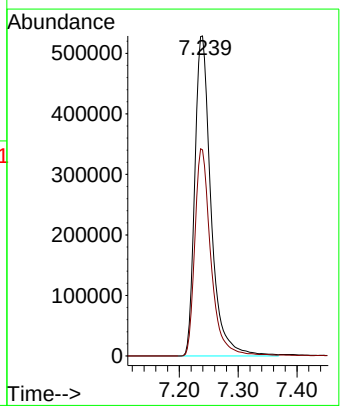


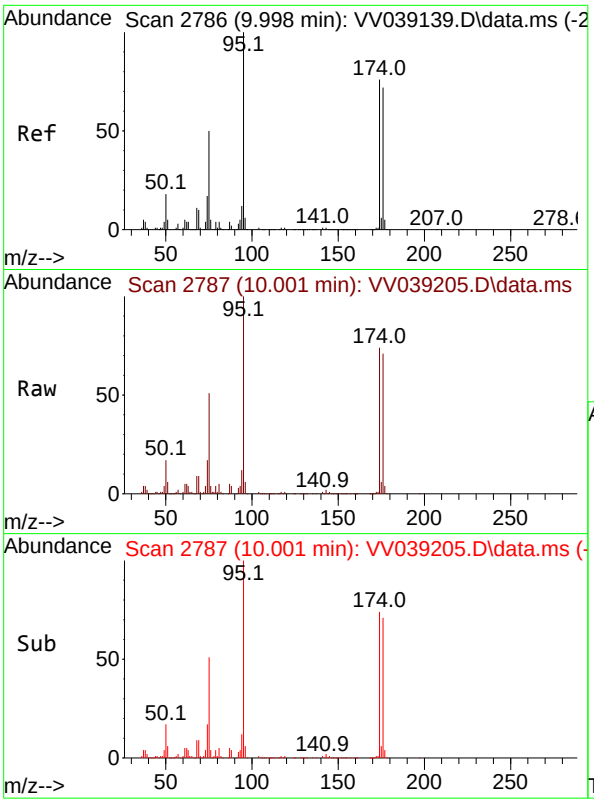


#50
Toluene-d8
Concen: 46.235 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 98 Resp: 1008875

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.2	78.2



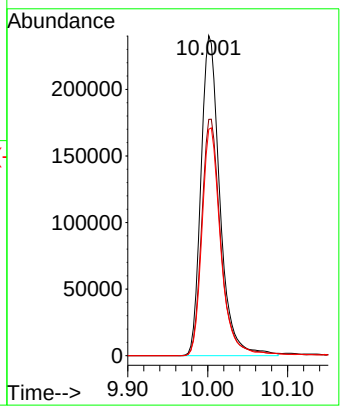


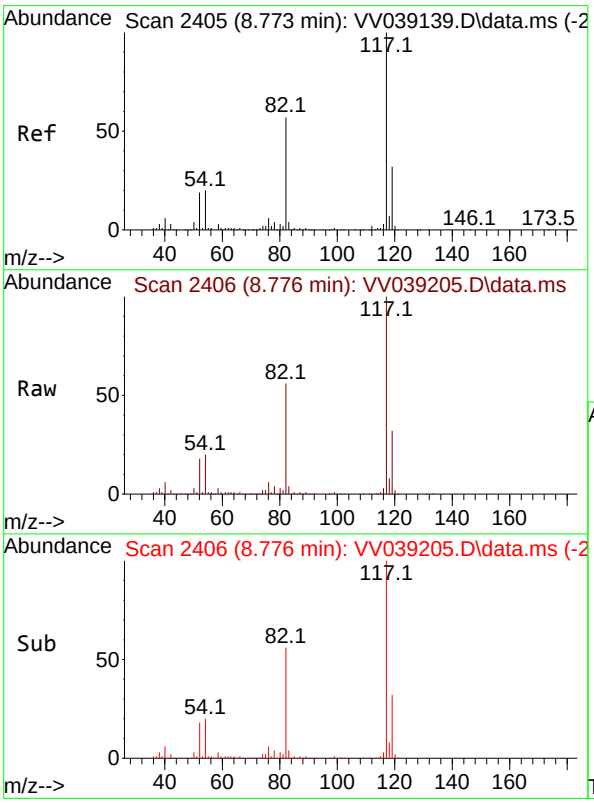
#62
4-Bromofluorobenzene
Concen: 44.107 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Tgt Ion: 95 Resp: 396215

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	150.4
176	71.1	0.0	144.2

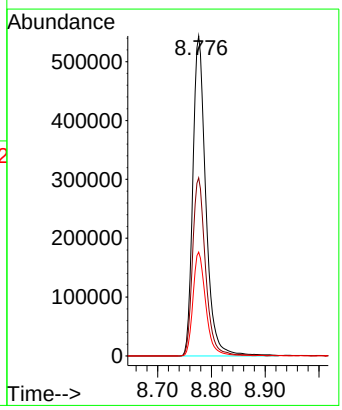


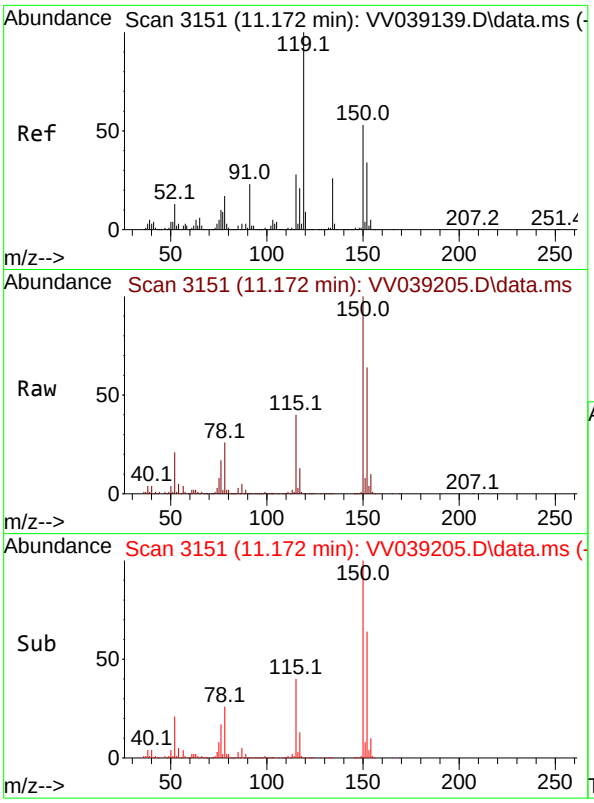


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion:117 Resp: 911885

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.4	68.2
119	32.5	25.6	38.4



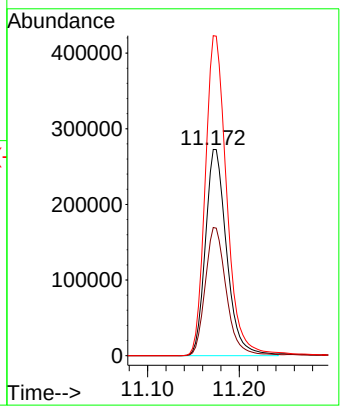


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Tgt Ion:152 Resp: 438479

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.8	134.4
150	157.9	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039205.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.085	316	325	336	rBV2	29231	52488	1.17%	0.246%
2	3.825	848	866	893	rBV3	214550	616125	13.77%	2.886%
3	4.503	1057	1077	1095	rBV	471939	1226158	27.41%	5.743%
4	4.600	1096	1107	1153	rVB	603532	1663323	37.18%	7.791%
5	4.944	1202	1214	1242	rBV2	466060	1152642	25.76%	5.399%
6	5.532	1384	1397	1446	rBV	924856	2194284	49.04%	10.278%
7	5.828	1475	1489	1538	rBV	2066979	4474095	100.00%	20.957%
8	7.236	1916	1927	1959	rBV	1376810	2632948	58.85%	12.333%
9	8.776	2395	2406	2437	rBV	1609253	2733831	61.10%	12.805%
10	10.001	2775	2787	2814	rBV	1144683	1907952	42.64%	8.937%
11	11.172	3141	3151	3191	rBV	1638589	2695355	60.24%	12.625%

Sum of corrected areas: 21349201

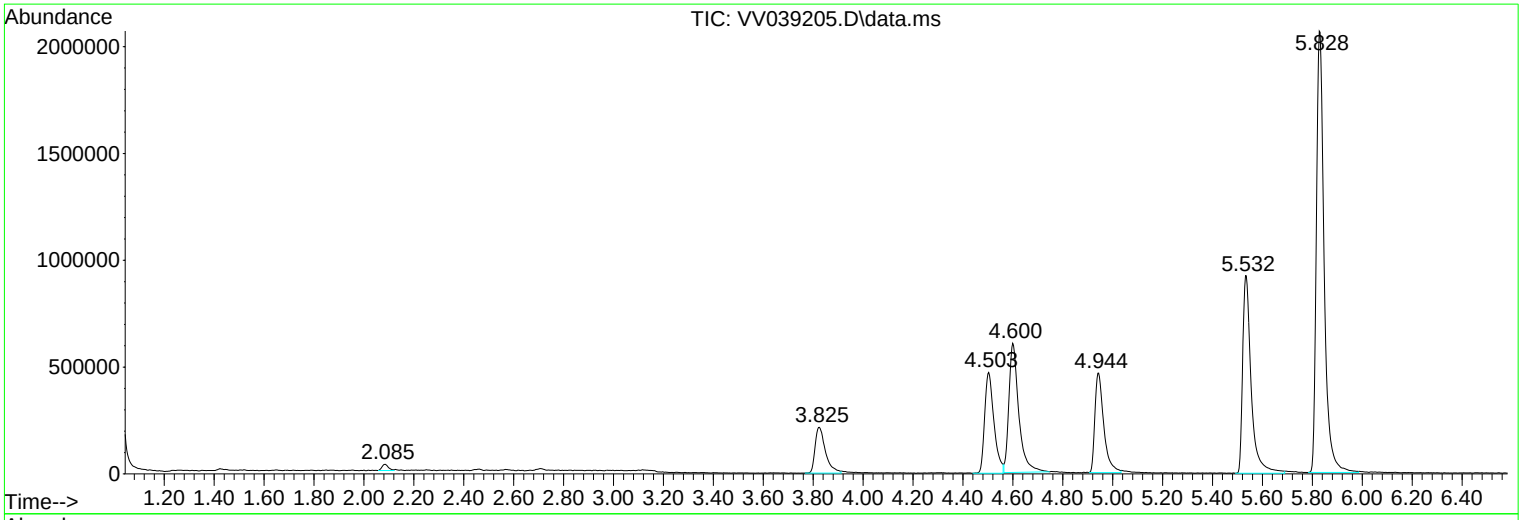
Sample Results: **VV039205.D**

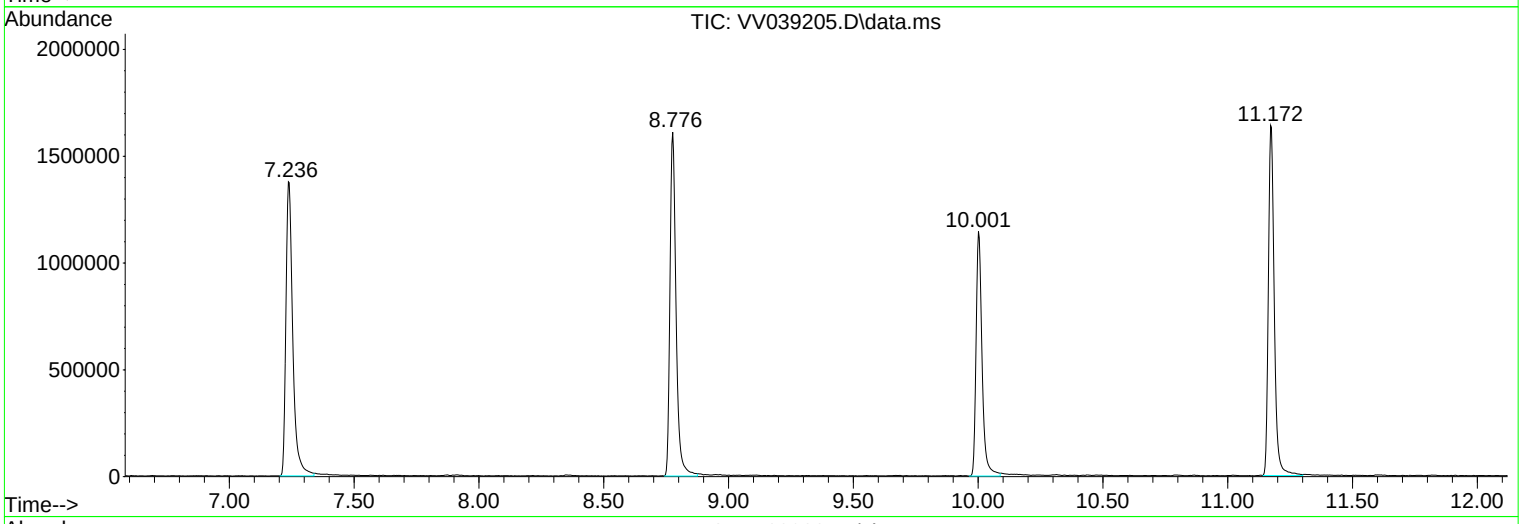
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

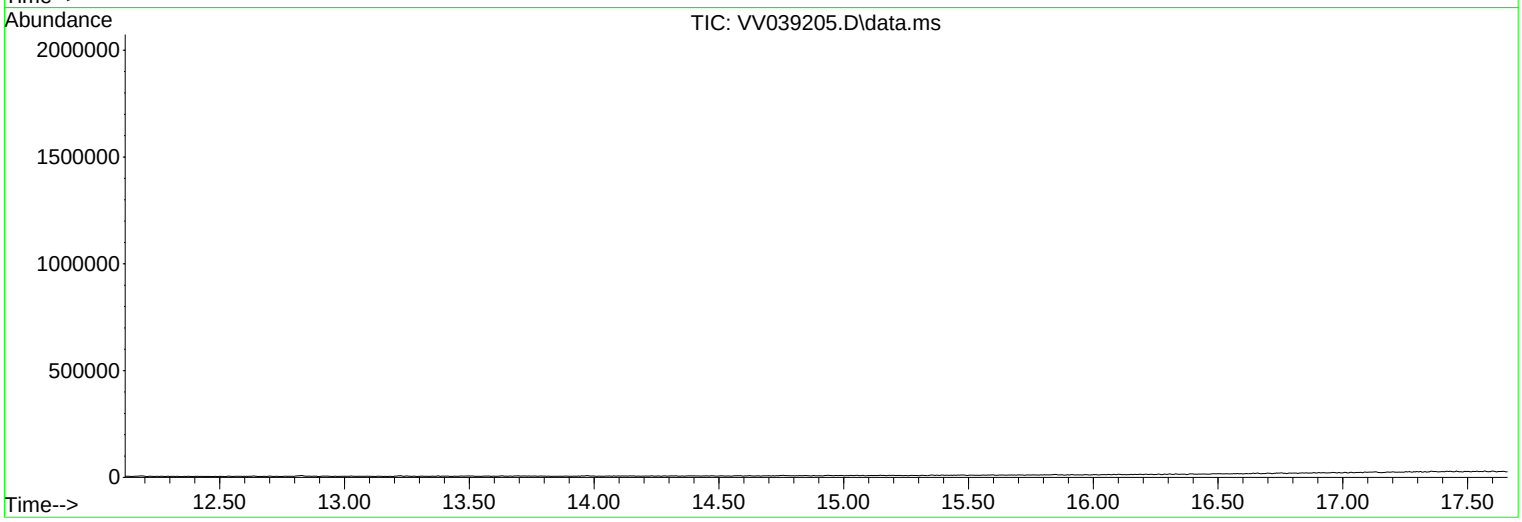
Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/16/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-6-091625	SDG No.:	Q3195
Lab Sample ID:	Q3195-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039208.D	1	09/26/25 13:28	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.43	J	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.62	J	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	12.0		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	6.00		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/16/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-6-091625	SDG No.:	Q3195
Lab Sample ID:	Q3195-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039208.D	1	09/26/25 13:28	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.5		74 - 125	121%	SPK: 50
1868-53-7	Dibromofluoromethane	56.6		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	46.3		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.5		77 - 121	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	375000	4.6			
540-36-3	1,4-Difluorobenzene	660000	5.535			
3114-55-4	Chlorobenzene-d5	676000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	313000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/16/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-6-091625	SDG No.:	Q3195
Lab Sample ID:	Q3195-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039208.D	1	09/26/25 13:28	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Quant Time: Sep 27 02:55:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

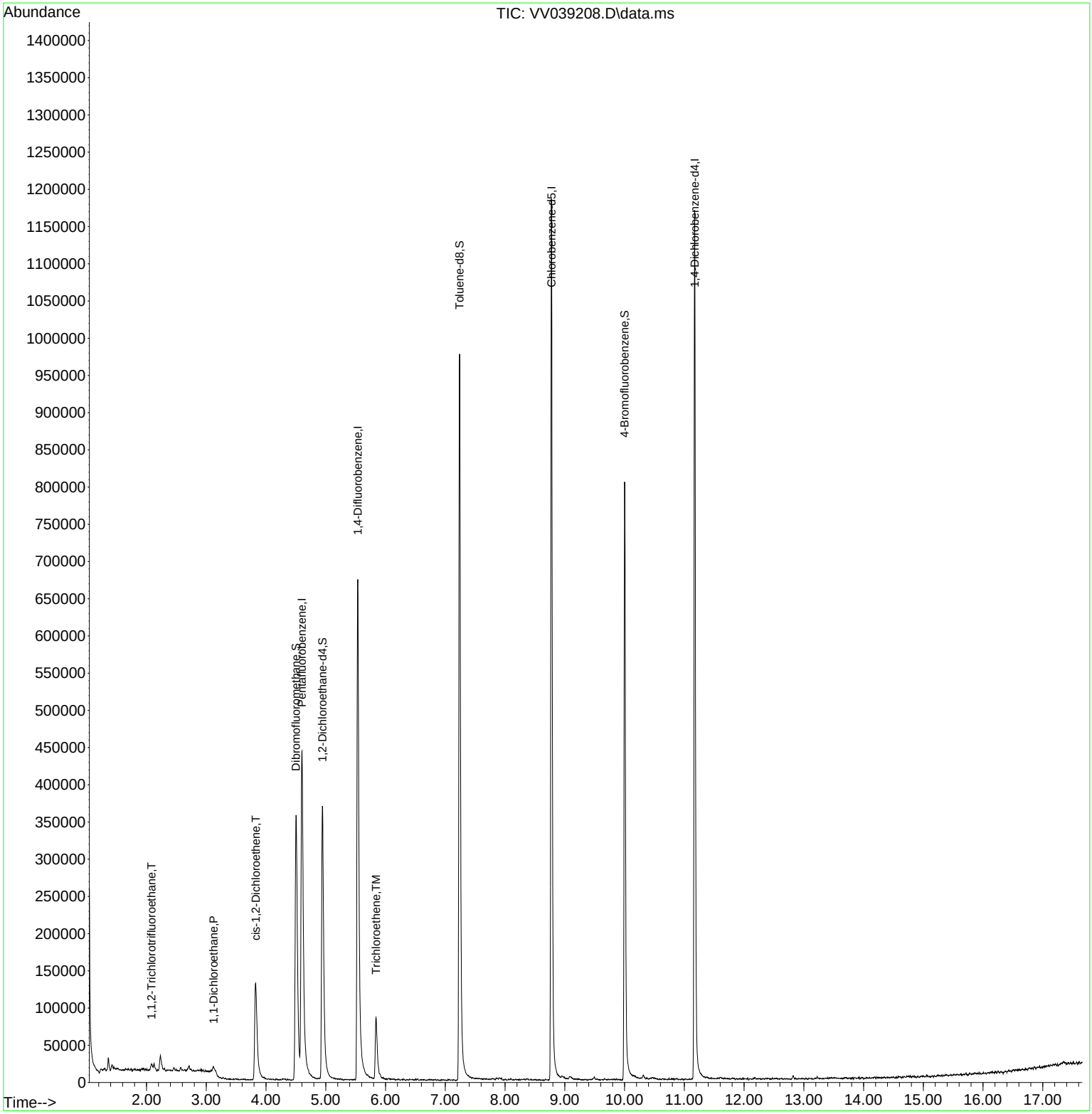
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	374514	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	660135	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	675751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	313063	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	328194	60.549	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 121.100%#			
35) Dibromofluoromethane	4.503	113	300201	56.567	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 113.140%			
50) Toluene-d8	7.239	98	722235	46.337	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.680%			
62) 4-Bromofluorobenzene	10.001	95	278949	43.473	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 86.940%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.082	101	2535	0.432	ug/l	95
24) 1,1-Dichloroethane	3.124	63	7253	0.615	ug/l #	85
27) cis-1,2-Dichloroethene	3.828	96	79686	12.019	ug/l	88
44) Trichloroethene	5.844	130	36430	6.042	ug/l	99

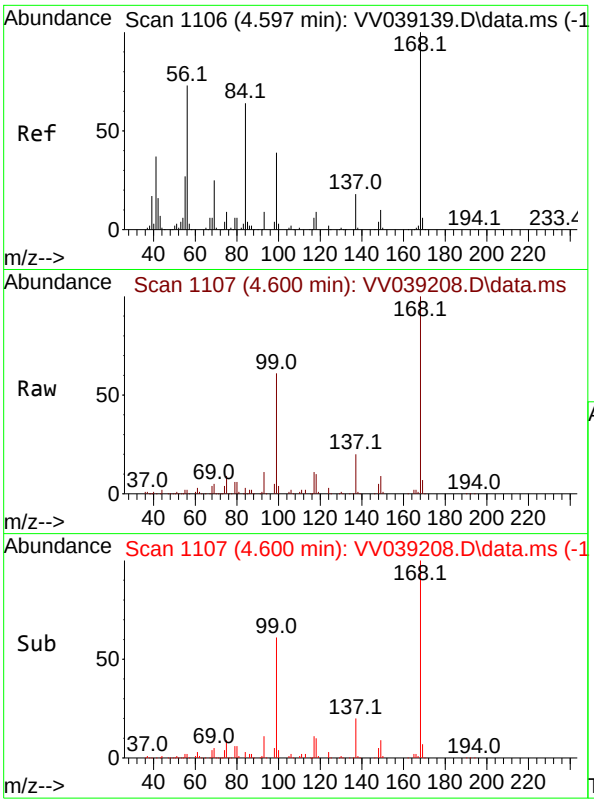
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Quant Time: Sep 27 02:55:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



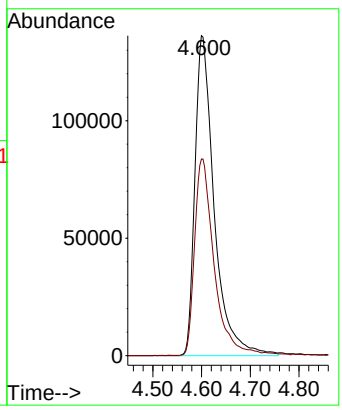


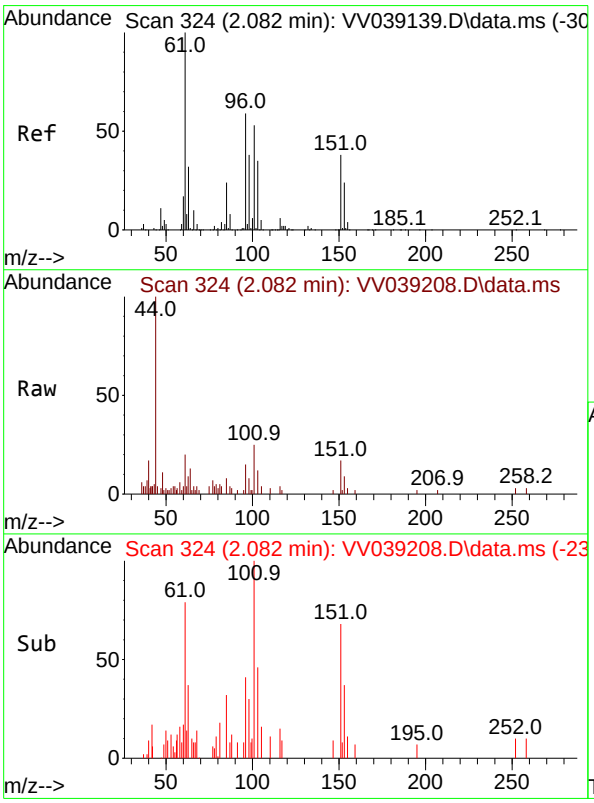
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Tgt Ion:168 Resp: 374514

Ion	Ratio	Lower	Upper
168	100		
99	61.3	49.6	74.4

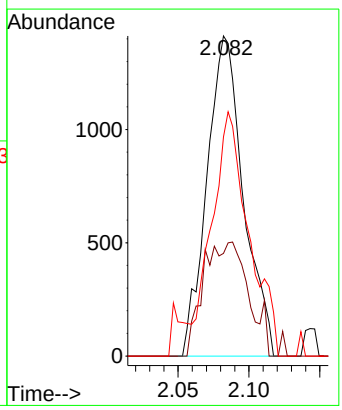


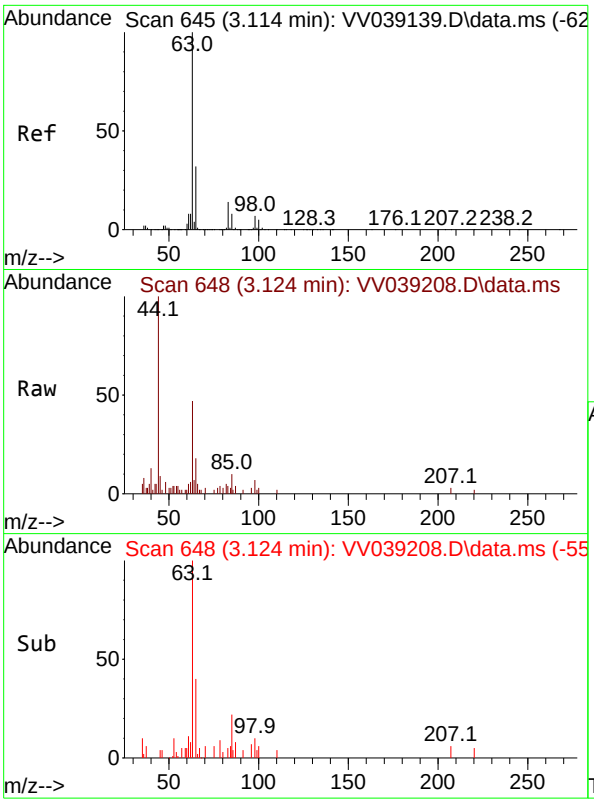


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.432 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:101 Resp: 2535

Ion	Ratio	Lower	Upper
101	100		
85	44.0	36.2	54.2
151	76.7	56.3	84.5



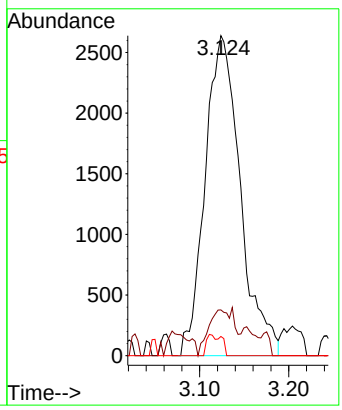


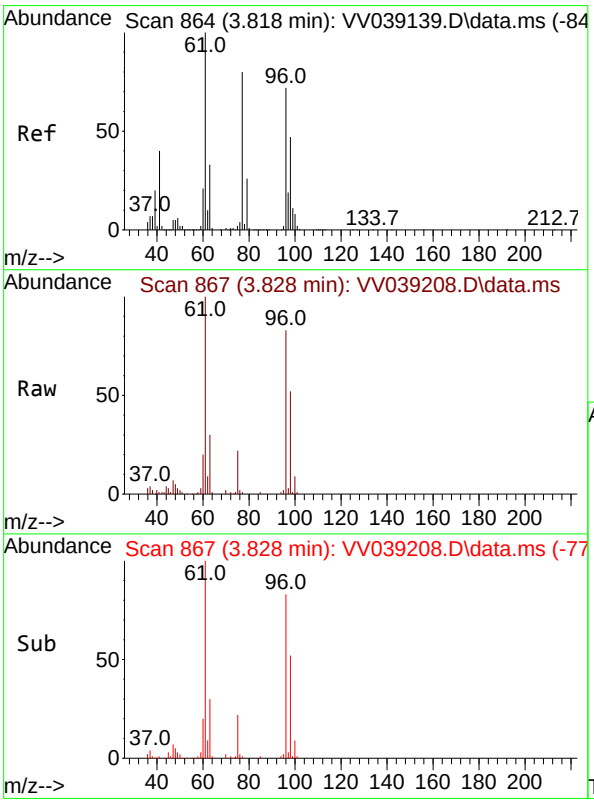
#24
1,1-Dichloroethane
Concen: 0.615 ug/l
RT: 3.124 min Scan# 64
Delta R.T. 0.010 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Tgt Ion: 63 Resp: 7253

Ion	Ratio	Lower	Upper
63	100		
98	14.3	3.4	10.2#
100	6.0	2.2	6.6

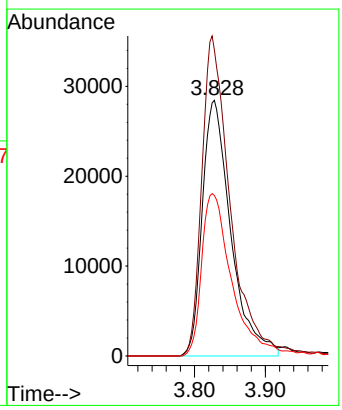


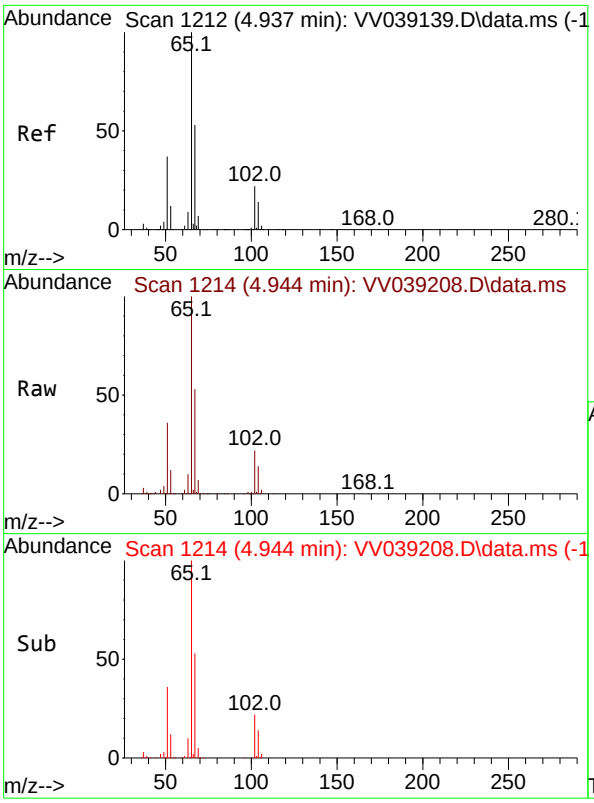


#27
cis-1,2-Dichloroethene
Concen: 12.019 ug/l
RT: 3.828 min Scan# 867
Delta R.T. 0.010 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion: 96 Resp: 79686

Ion	Ratio	Lower	Upper
96	100		
61	124.9	0.0	286.4
98	67.1	0.0	126.6



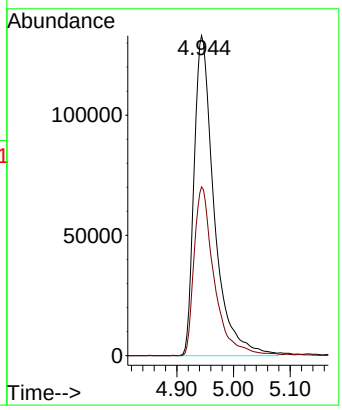


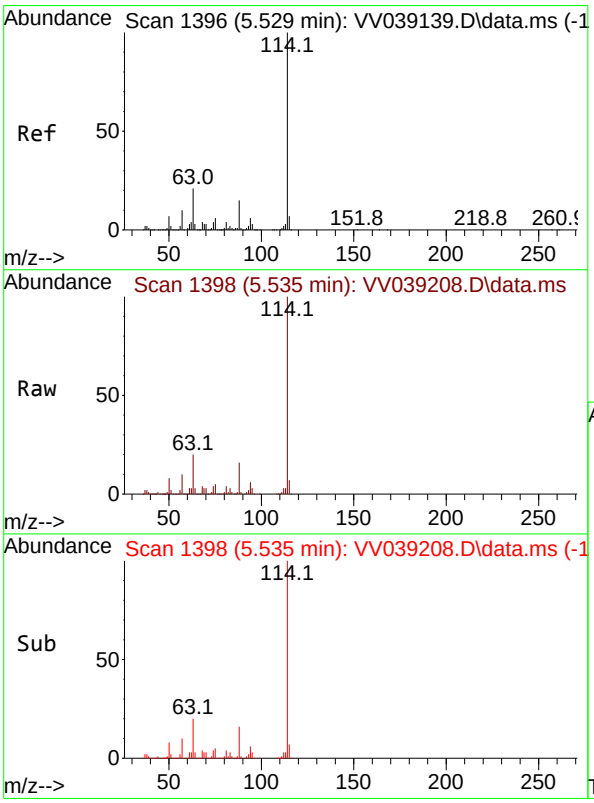
#33
1,2-Dichloroethane-d4
Concen: 60.549 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Tgt Ion: 65 Resp: 328194

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	107.0

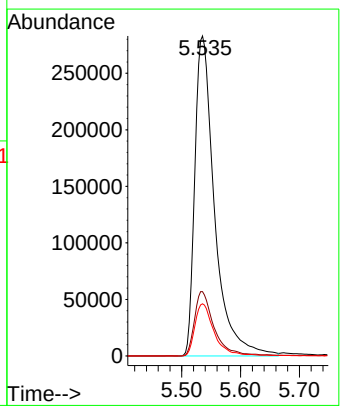


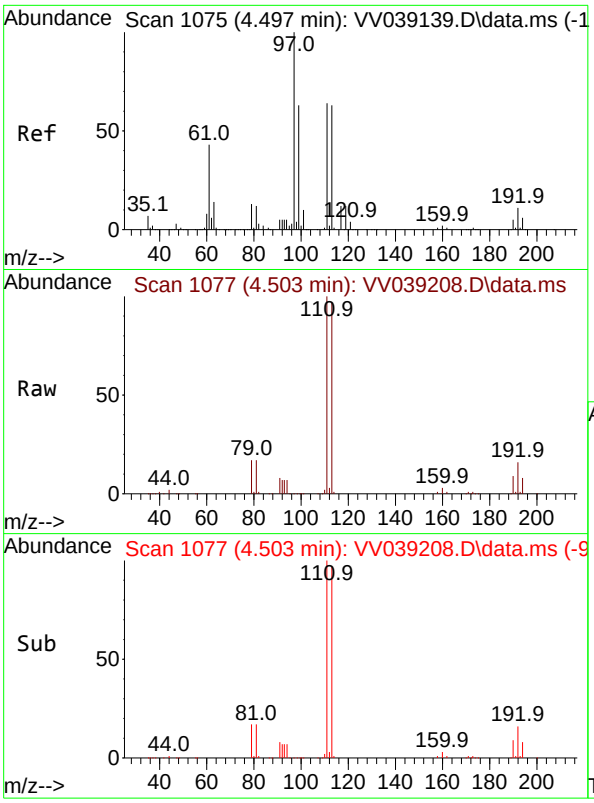


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:114 Resp: 660135

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.6
88	16.3	0.0	30.8



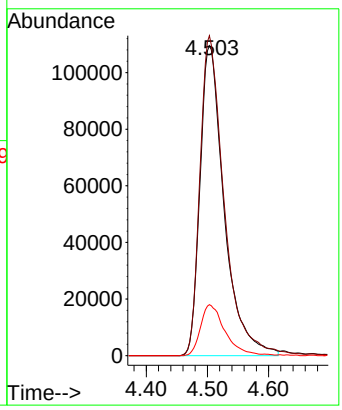


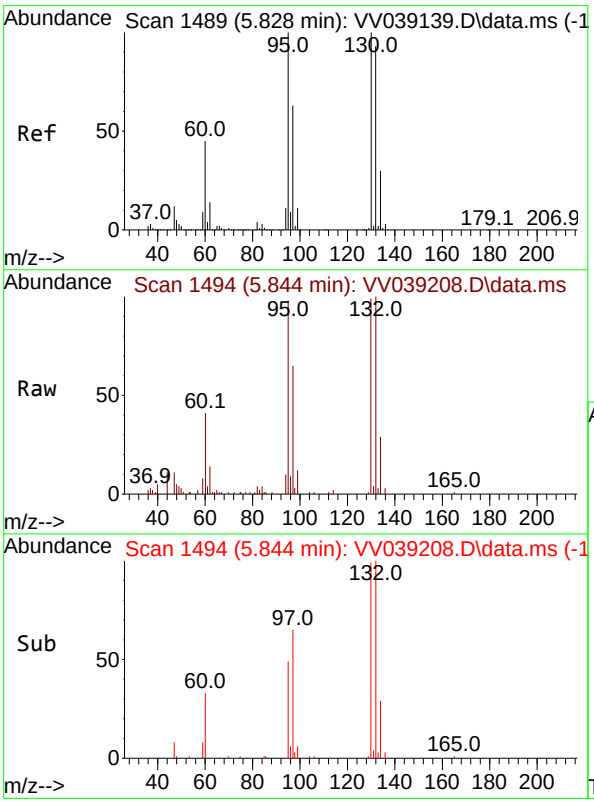
#35
Dibromofluoromethane
Concen: 56.567 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Tgt Ion:113 Resp: 300201

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.4	123.6
192	16.8	13.8	20.8

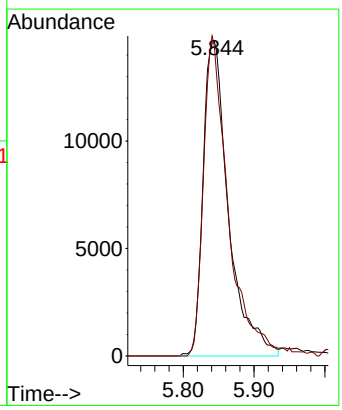


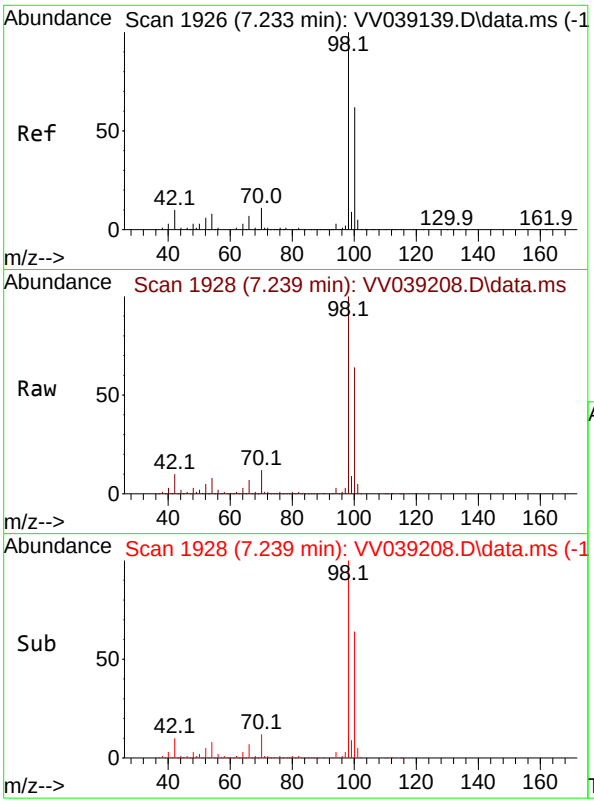


#44
Trichloroethene
Concen: 6.042 ug/l
RT: 5.844 min Scan# 1494
Delta R.T. 0.016 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:130 Resp: 36430

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	199.2



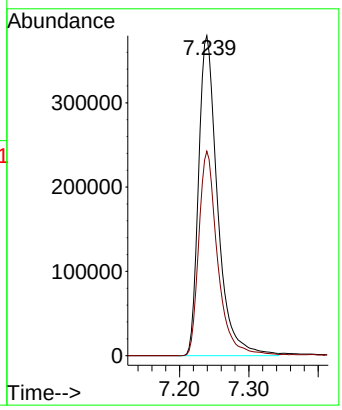


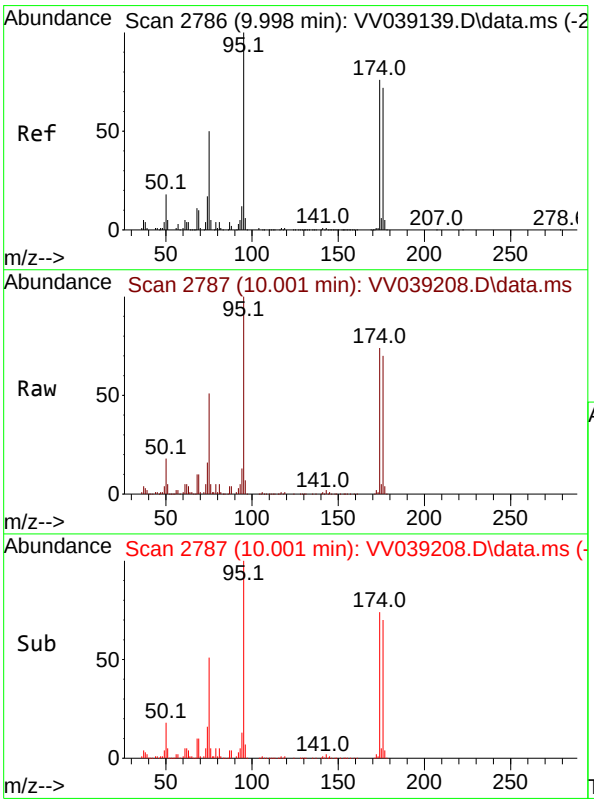
#50
Toluene-d8
Concen: 46.337 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Tgt Ion: 98 Resp: 722235

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.2	78.2

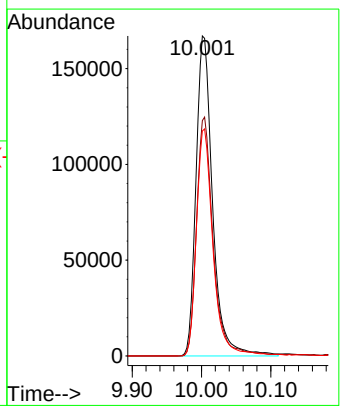


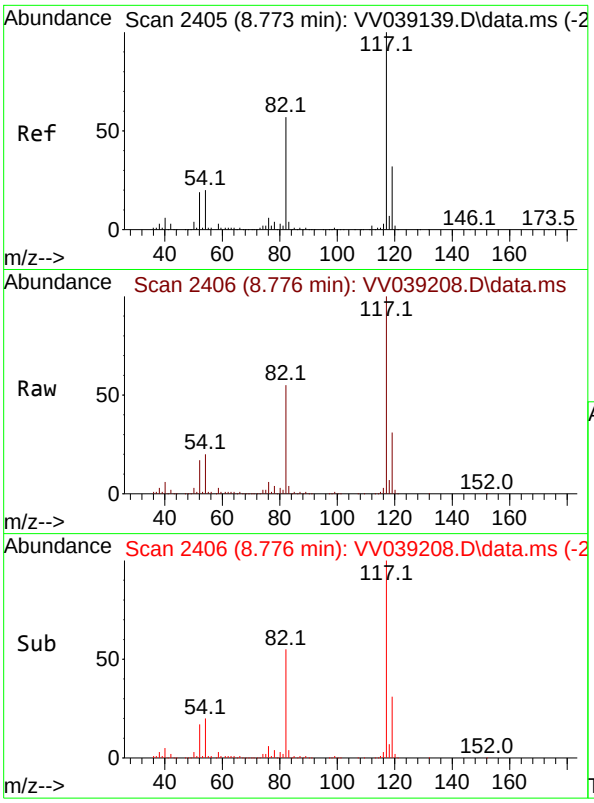


#62
4-Bromofluorobenzene
Concen: 43.473 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion: 95 Resp: 278949

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	150.4
176	71.2	0.0	144.2



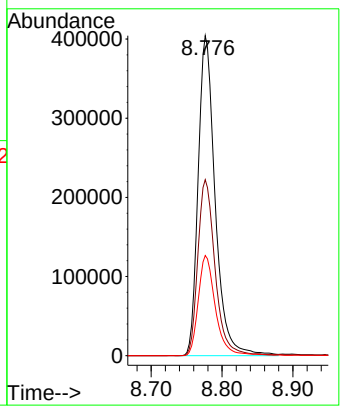


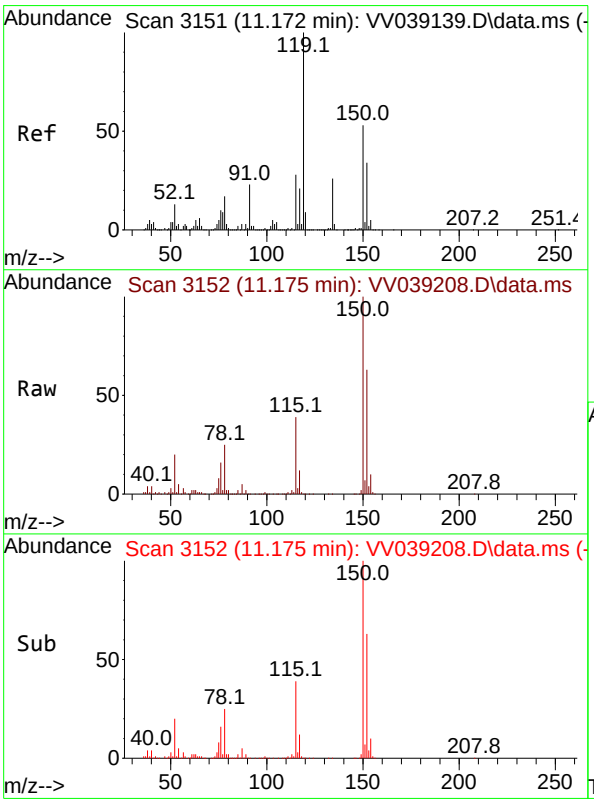
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Tgt Ion:117 Resp: 675751

Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.4	68.2
119	31.3	25.6	38.4

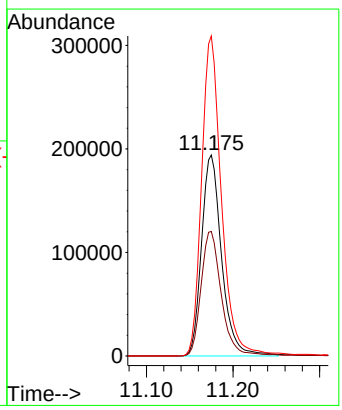




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:152 Resp: 313063

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.8	134.4
150	157.7	0.0	353.8



Sample Results: **VV039208.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039208.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.362	94	100	110	rVB	17227	24031	1.19%	0.192%
2	2.233	364	371	384	rVB	18495	35070	1.73%	0.280%
3	3.825	850	866	901	rBV2	129588	390364	19.27%	3.119%
4	4.503	1062	1077	1096	rBV2	355680	942290	46.50%	7.528%
5	4.603	1096	1108	1147	rVB	436136	1205471	59.49%	9.630%
6	4.944	1202	1214	1260	rBV	365761	915418	45.18%	7.313%
7	5.535	1386	1398	1444	rBV	672502	1597318	78.83%	12.761%
8	5.841	1482	1493	1522	rBV	82034	199566	9.85%	1.594%
9	7.239	1915	1928	1971	rBV	975731	1909743	94.25%	15.257%
10	8.776	2393	2406	2437	rBV	1184166	2026230	100.00%	16.187%
11	10.001	2776	2787	2817	rBV	803585	1360624	67.15%	10.870%
12	11.175	3141	3152	3182	rBV	1166897	1911435	94.33%	15.270%

Sum of corrected areas: 12517560

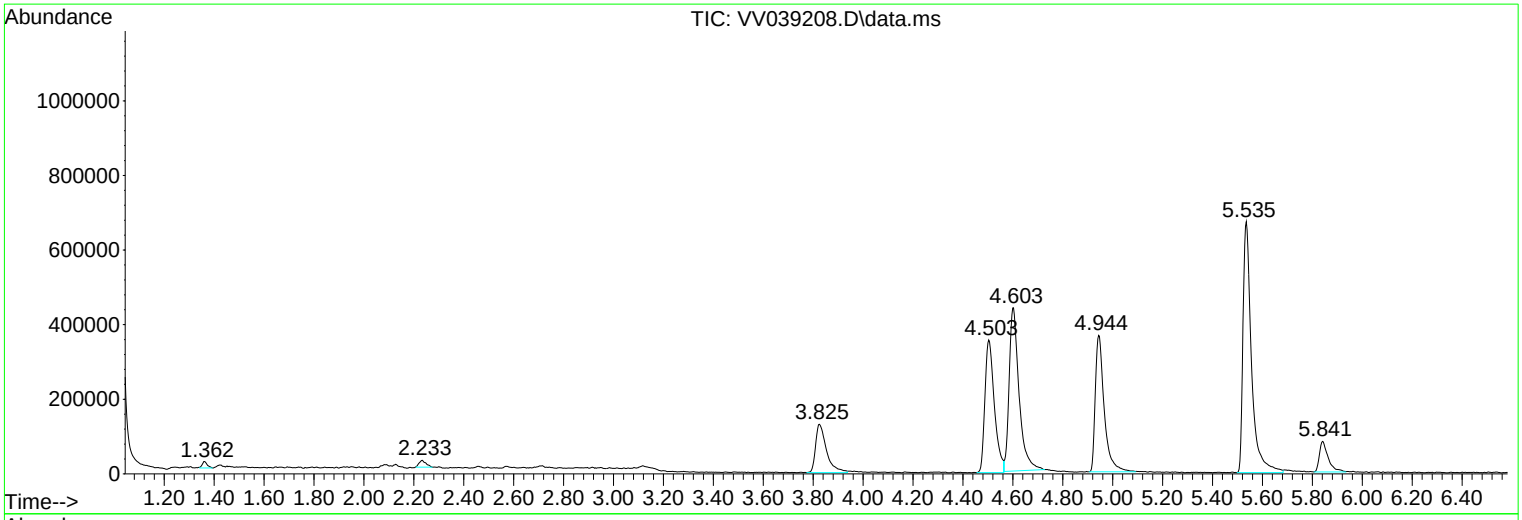
Sample Results: **VV039208.D**

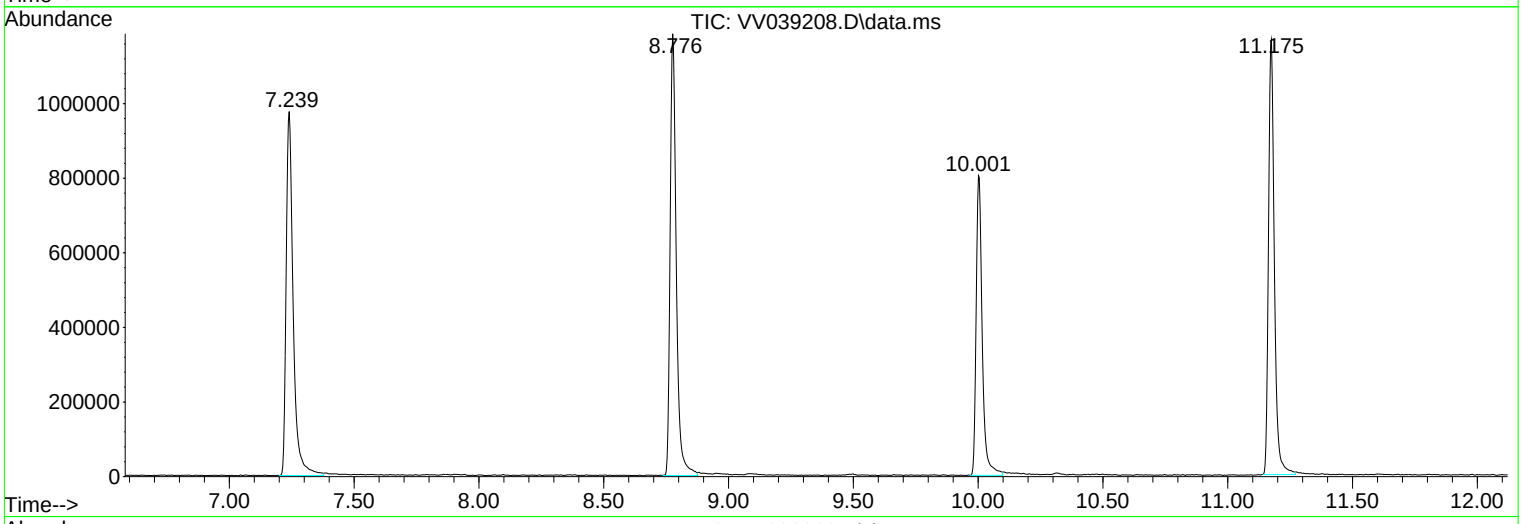
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

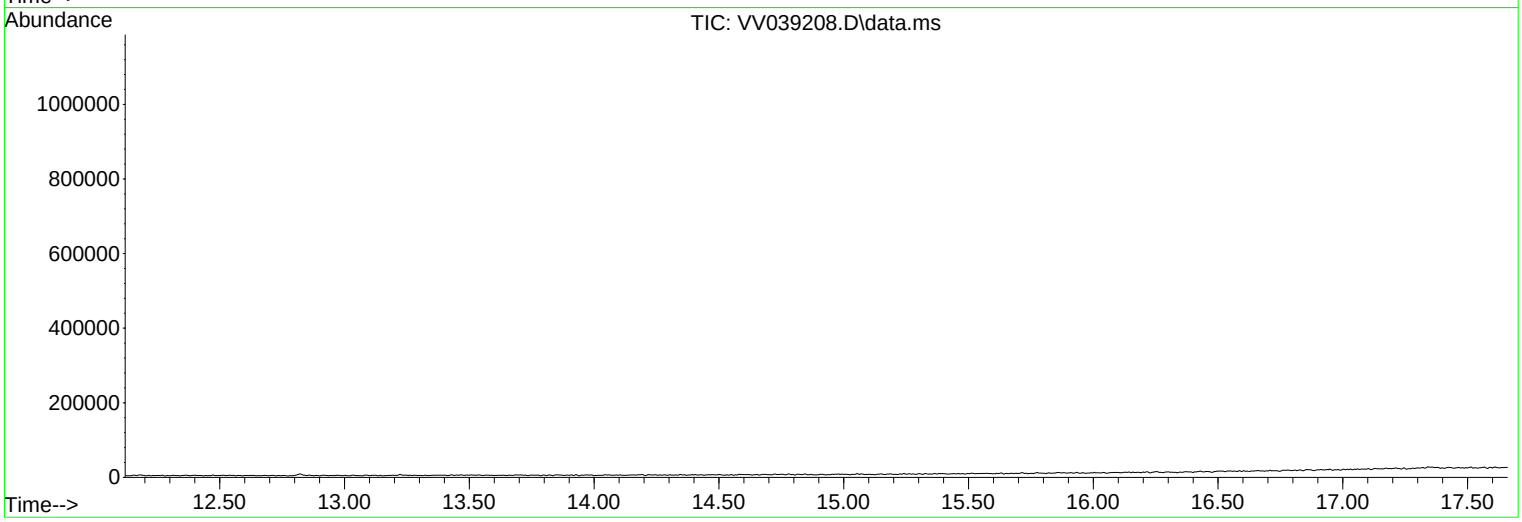
Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-6-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-19D-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039209.D	1	09/26/25 13:51	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.00		0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	7.70		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.50	J	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.65	J	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	3.20		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-19D-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039209.D	1	09/26/25 13:51	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.30	J	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.9		74 - 125	124%	SPK: 50
1868-53-7	Dibromofluoromethane	57.6		75 - 124	115%	SPK: 50
2037-26-5	Toluene-d8	47.3		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	345000	4.603			
540-36-3	1,4-Difluorobenzene	615000	5.535			
3114-55-4	Chlorobenzene-d5	628000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	292000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-19D-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039209.D	1	09/26/25 13:51	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 27 02:55:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	344932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	614959	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	627934	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	291769	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	308774	61.851	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 123.700%#			
35) Dibromofluoromethane	4.503	113	284583	57.564	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 115.120%			
50) Toluene-d8	7.240	98	686292	47.266	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.540%			
62) 4-Bromofluorobenzene	10.002	95	261604	43.765	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	32529	5.957	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	41397	7.658	ug/l	100
27) cis-1,2-Dichloroethene	3.847	96	3033m	0.497	ug/l	
30) Chloroform	4.291	83	7336	0.646	ug/l	98
44) Trichloroethene	5.847	130	18064	3.216	ug/l	93
64) Tetrachloroethene	7.908	164	1575	0.299	ug/l #	74

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

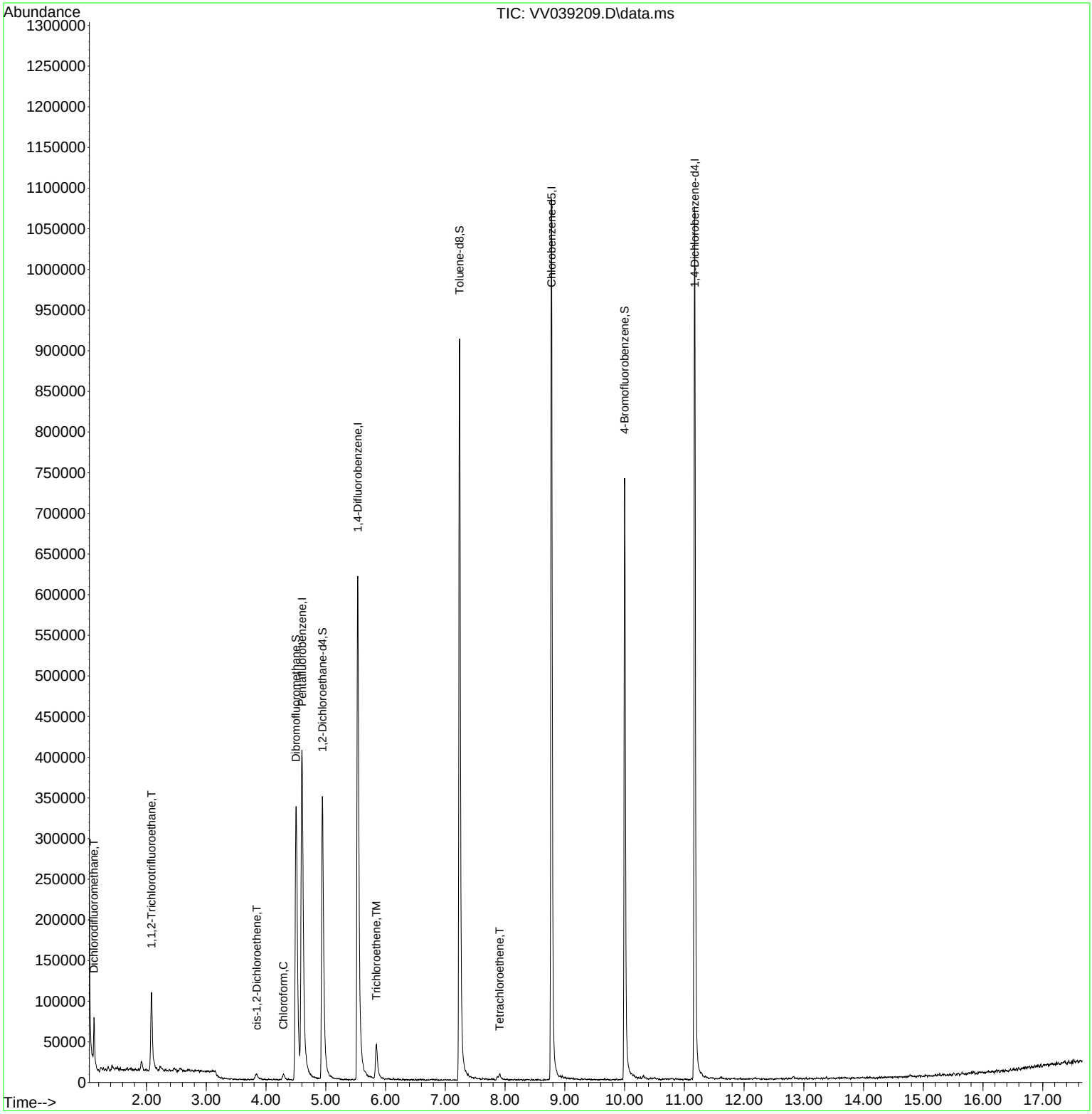
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

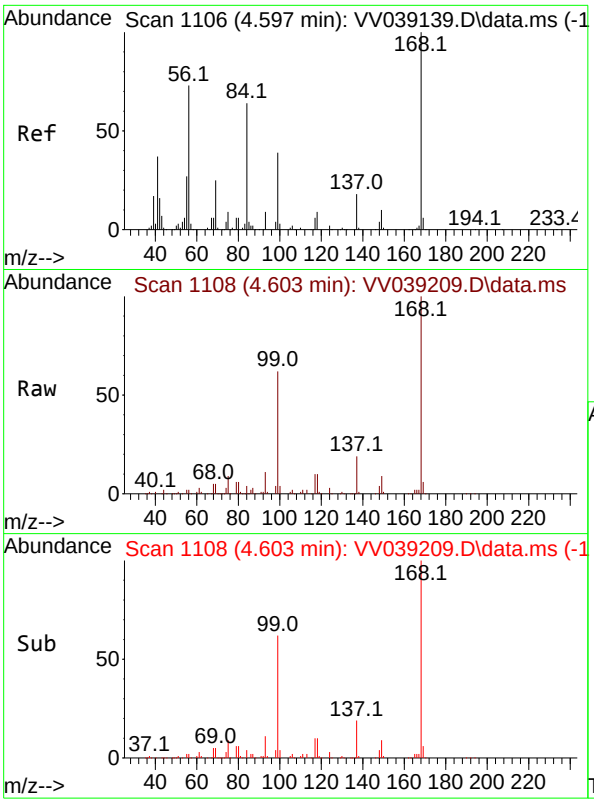
Quant Time: Sep 27 02:55:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

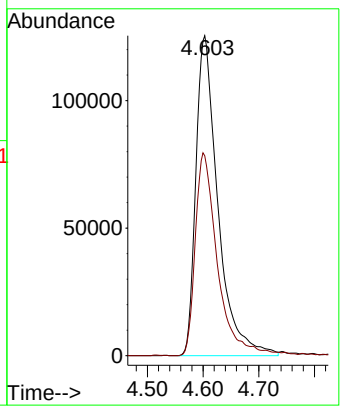




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:168 Resp: 34493

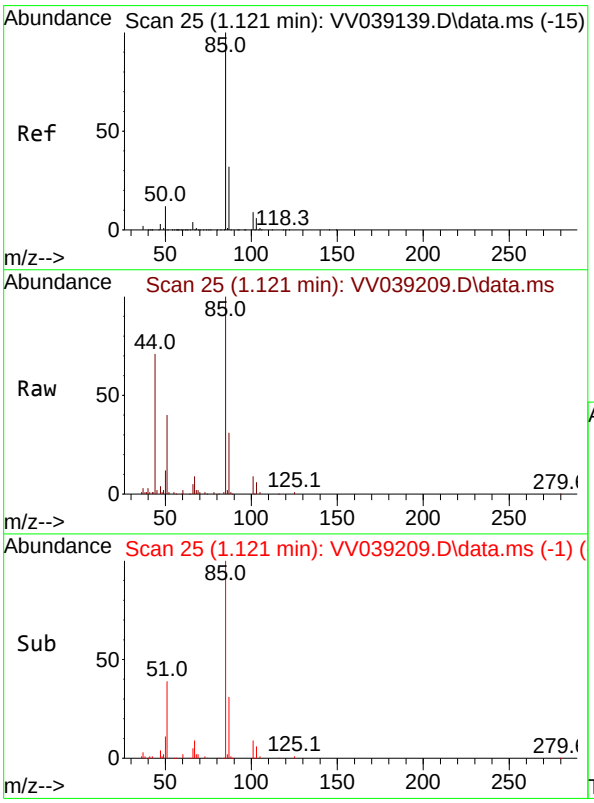
Ion	Ratio	Lower	Upper
168	100		
99	62.4	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations
APPROVED

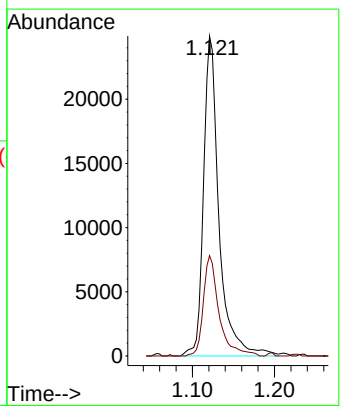
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

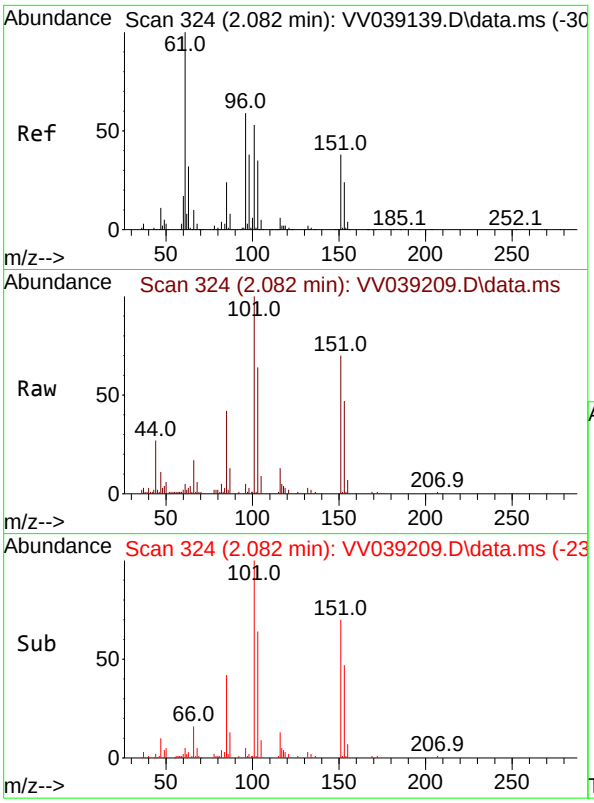


#2
Dichlorodifluoromethane
Concen: 5.957 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 85 Resp: 32529

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.0	47.9

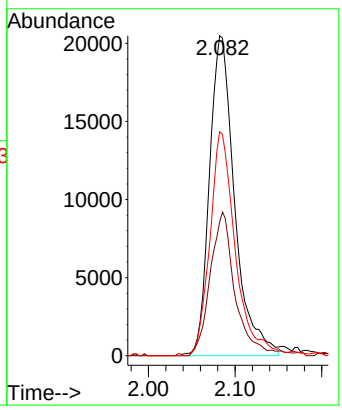




#9
1,1,2-Trichlorotrifluoroethane
Concen: 7.658 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:101 Resp: 4139

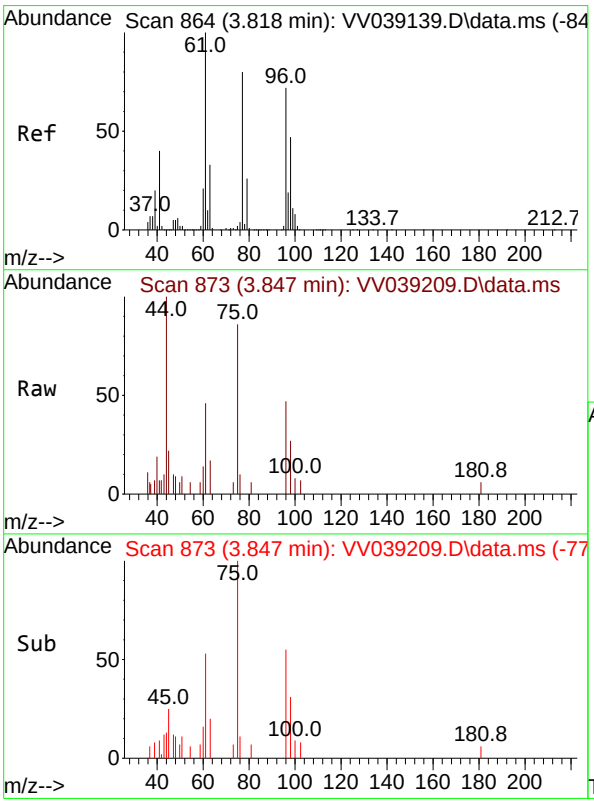
Ion	Ratio	Lower	Upper
101	100		
85	44.5	36.2	54.2
151	70.4	56.3	84.5



Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations
APPROVED

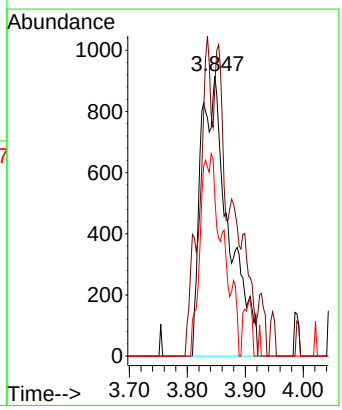
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

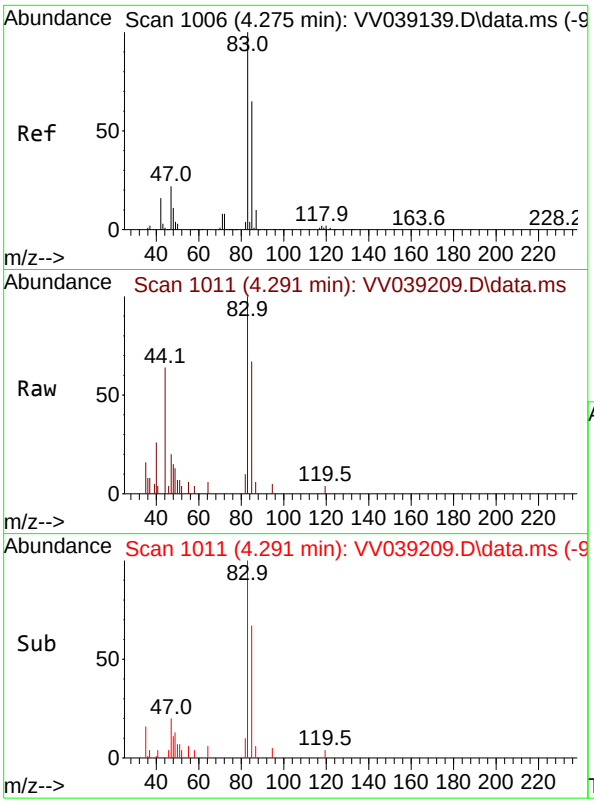


#27
cis-1,2-Dichloroethene
Concen: 0.497 ug/l m
RT: 3.847 min Scan# 873
Delta R.T. 0.029 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 96 Resp: 3033

Ion	Ratio	Lower	Upper
96	100		
61	31.0	0.0	286.4
98	25.5	0.0	126.6





#30
Chloroform
Concen: 0.646 ug/l
RT: 4.291 min Scan# 1
Delta R.T. 0.016 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

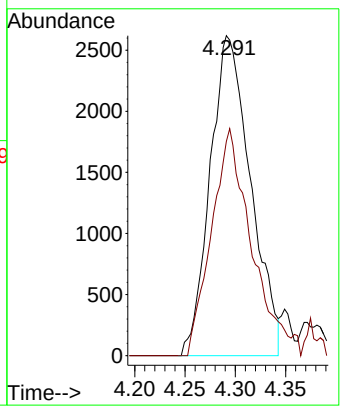
Tgt Ion: 83 Resp: 733

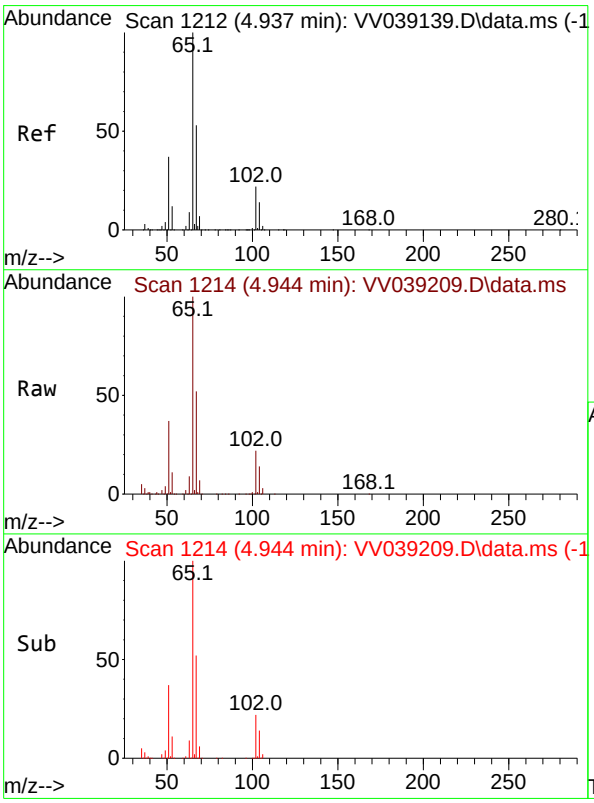
Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.1	78.1

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

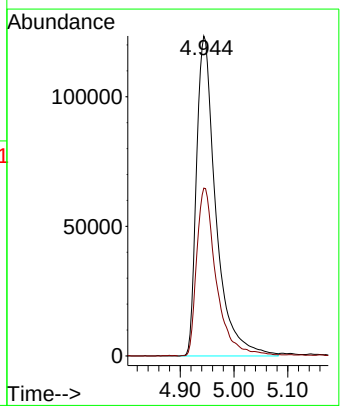


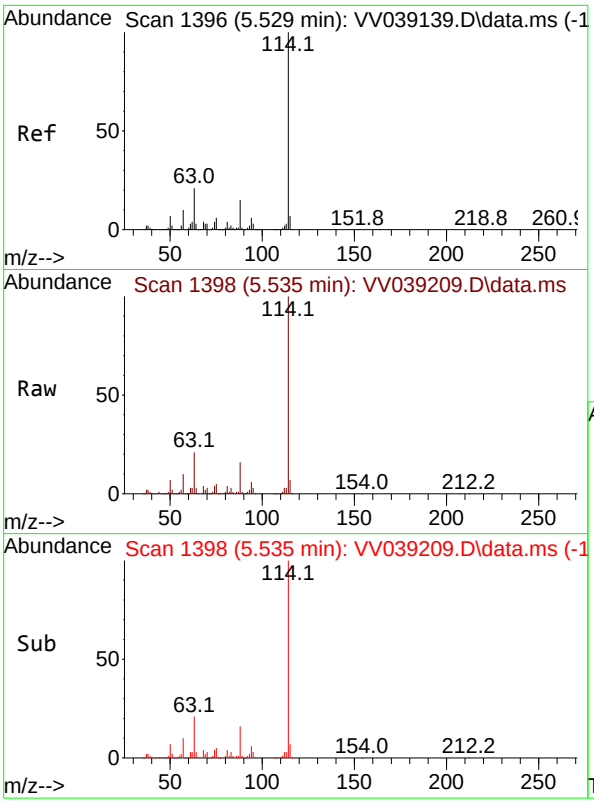


#33
1,2-Dichloroethane-d4
Concen: 61.851 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 65 Resp: 308774

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	107.0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

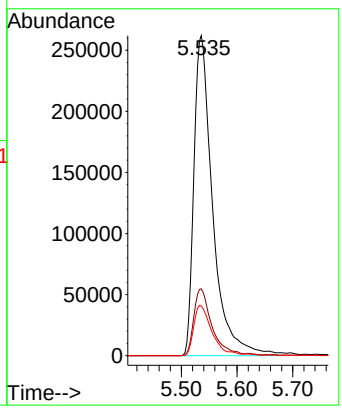
Tgt Ion:114 Resp: 61495

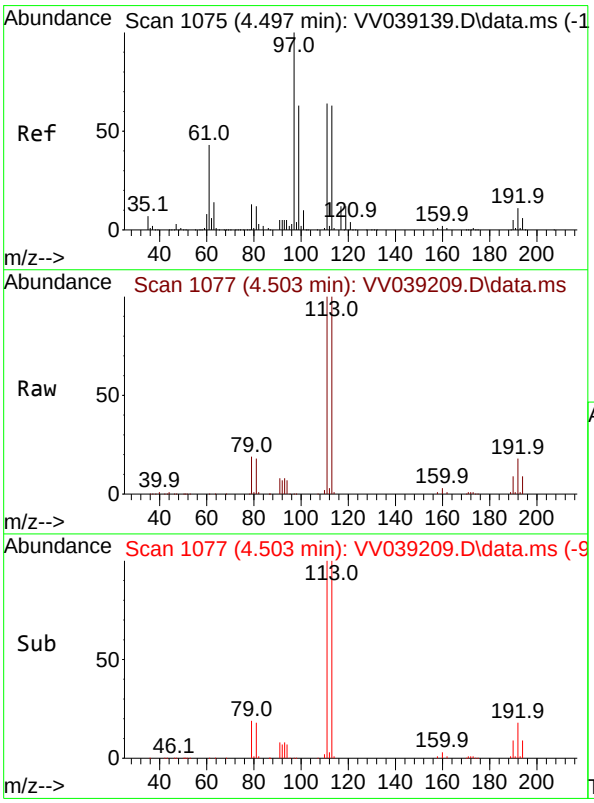
Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.6
88	15.6	0.0	30.8

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

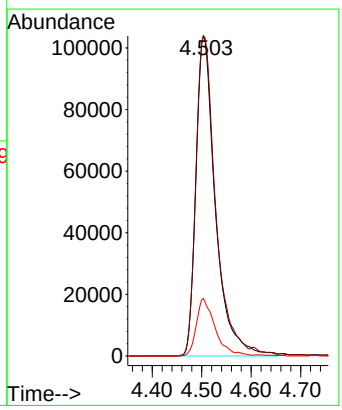


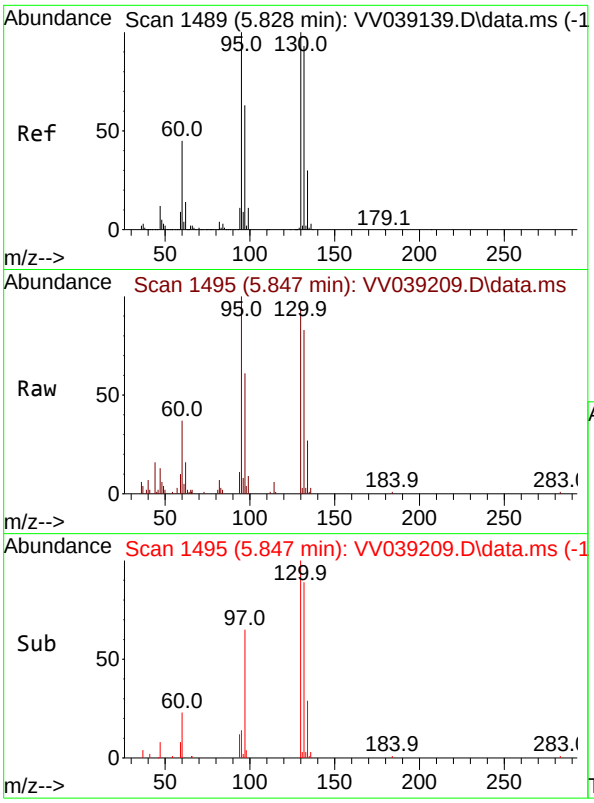


#35
Dibromofluoromethane
Concen: 57.564 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:113 Resp: 284583

Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.4	123.6
192	16.8	13.8	20.8





#44
Trichloroethene
Concen: 3.216 ug/l
RT: 5.847 min Scan# 14
Delta R.T. 0.019 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

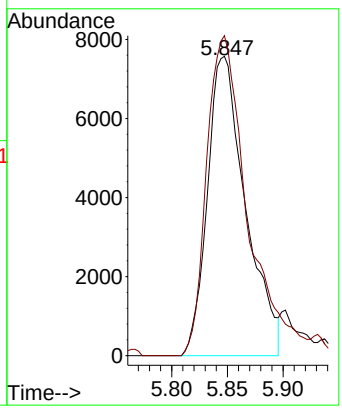
Tgt Ion:130 Resp: 1806

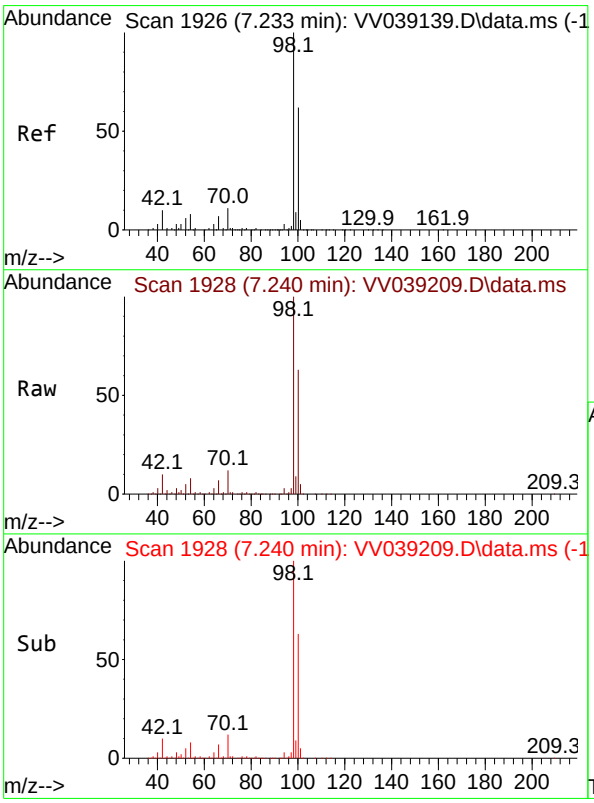
Ion	Ratio	Lower	Upper
130	100		
95	106.9	0.0	199.2

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

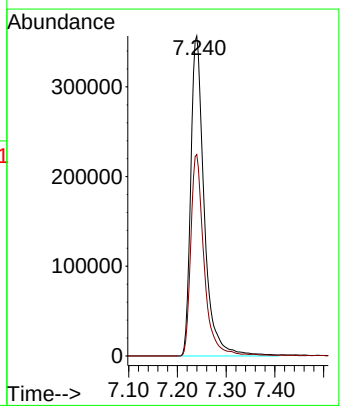


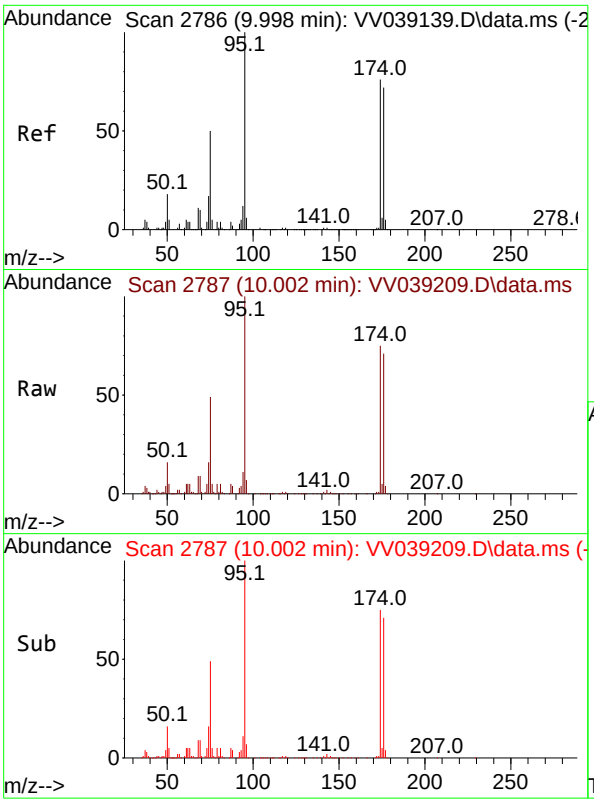


#50
Toluene-d8
Concen: 47.266 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 98 Resp: 686292

Ion	Ratio	Lower	Upper
98	100		
100	61.9	52.2	78.2

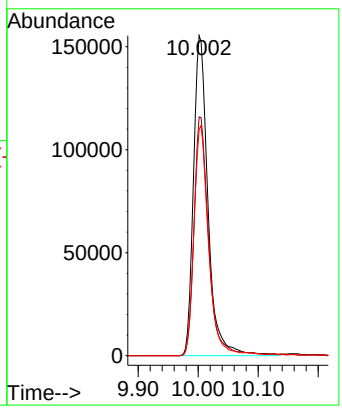




#62
4-Bromofluorobenzene
Concen: 43.765 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 95 Resp: 26160

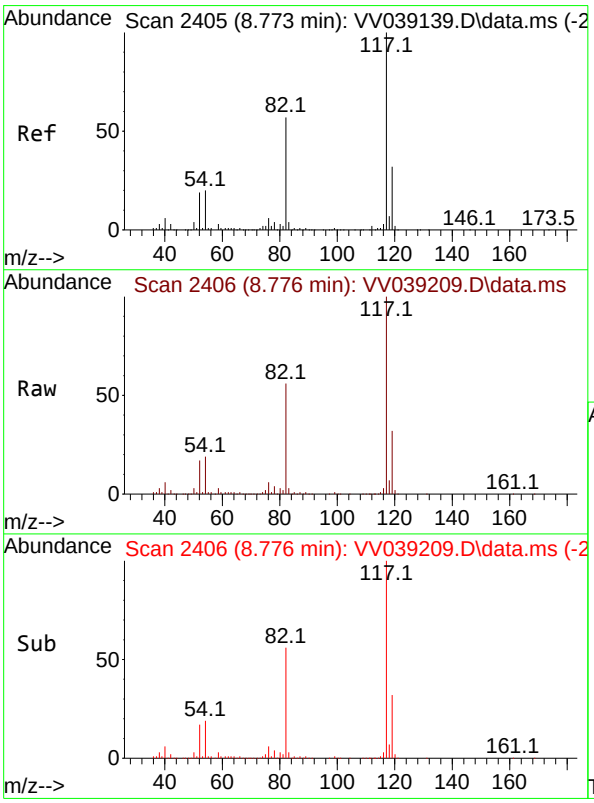
Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	150.4
176	71.3	0.0	144.2



Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations
APPROVED

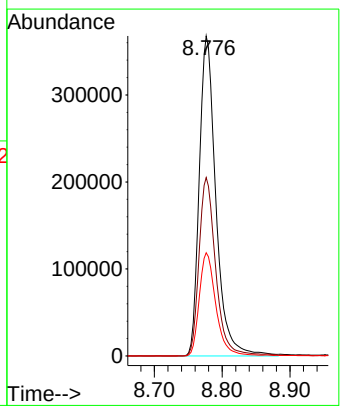
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

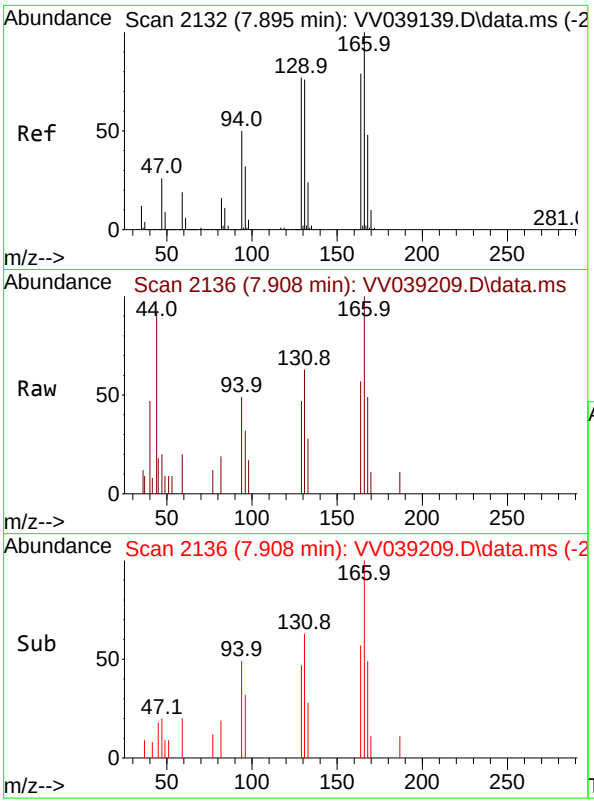


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:117 Resp: 627934

Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.4	68.2
119	32.3	25.6	38.4

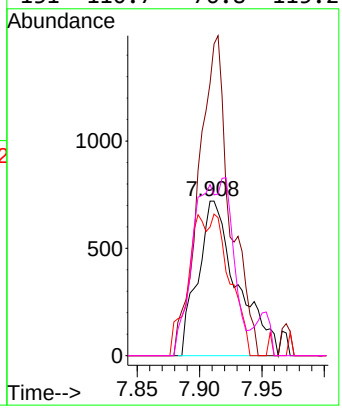




#64
Tetrachloroethene
Concen: 0.299 ug/l
RT: 7.908 min Scan# 2
Delta R.T. 0.013 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:164 Resp: 157

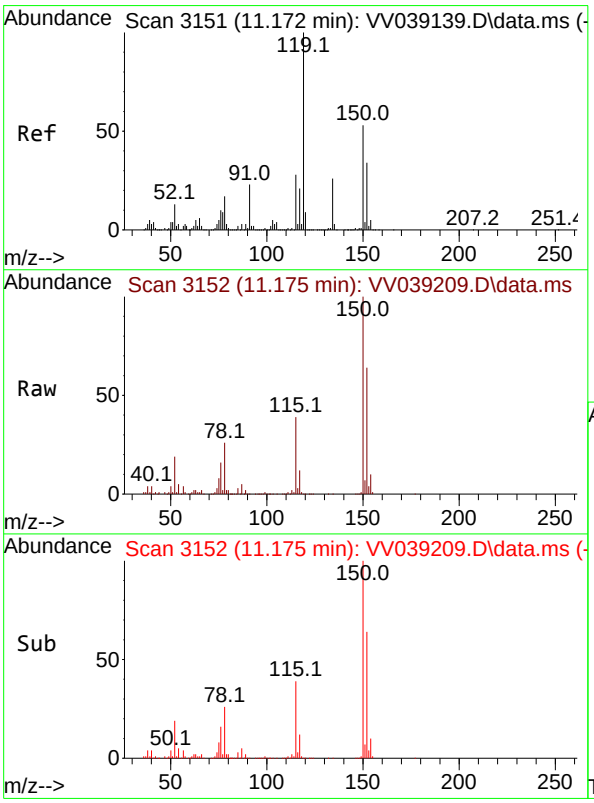
Ion	Ratio	Lower	Upper
164	100		
166	176.3	101.6	152.4
129	83.2	78.5	117.7
131	110.7	76.8	115.2



Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Manual Integrations
APPROVED

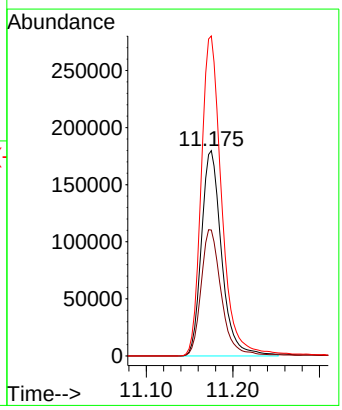
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:152 Resp: 291769

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.8	134.4
150	159.3	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039209.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.121	20	25	45	rVB2	65288	99215	5.26%	0.867%
2	1.915	266	272	284	rVB5	11190	21317	1.13%	0.186%
3	2.085	314	325	345	rBV3	94205	191786	10.17%	1.675%
4	4.503	1062	1077	1096	rBV2	336481	887864	47.08%	7.755%
5	4.600	1096	1107	1144	rVB	398766	1104712	58.58%	9.650%
6	4.944	1203	1214	1245	rBV	346680	855068	45.34%	7.469%
7	5.535	1383	1398	1434	rBV	619316	1467896	77.84%	12.822%
8	5.847	1483	1495	1517	rBV3	41041	101430	5.38%	0.886%
9	7.240	1915	1928	1958	rBV	912724	1776538	94.20%	15.518%
10	8.776	2394	2406	2445	rBV	1083112	1885877	100.00%	16.473%
11	10.002	2776	2787	2819	rBV	740082	1271394	67.42%	11.106%
12	11.175	3140	3152	3182	rBV	1073757	1785132	94.66%	15.593%

Sum of corrected areas: 11448229

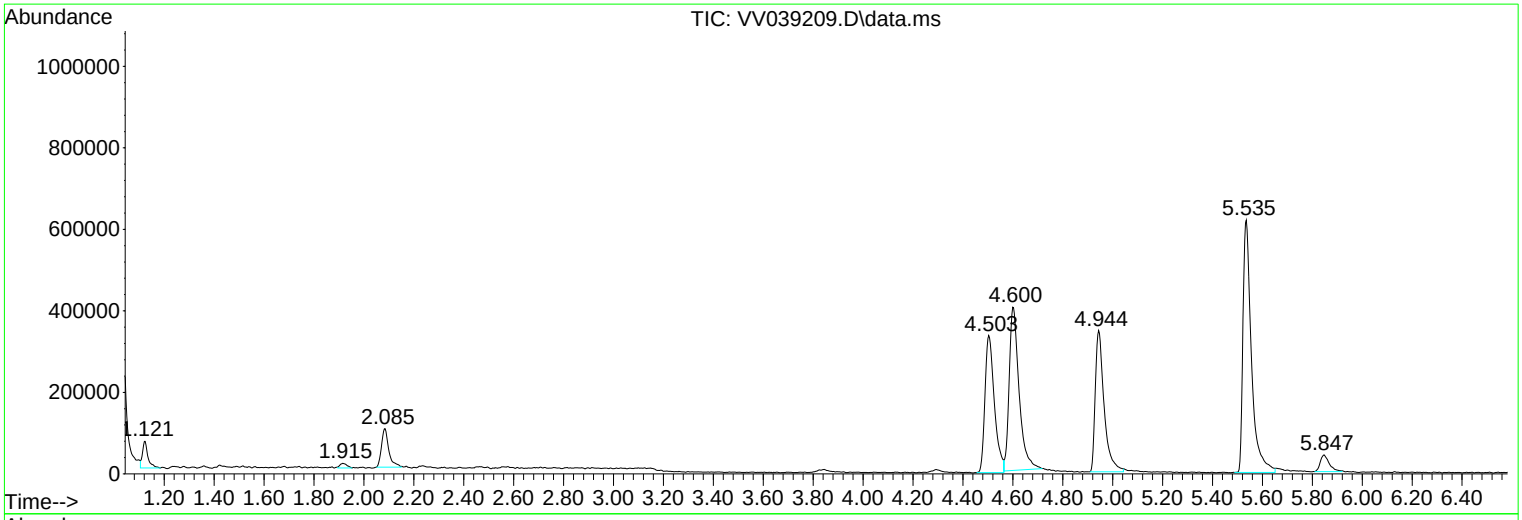
Sample Results: **VV039209.D**

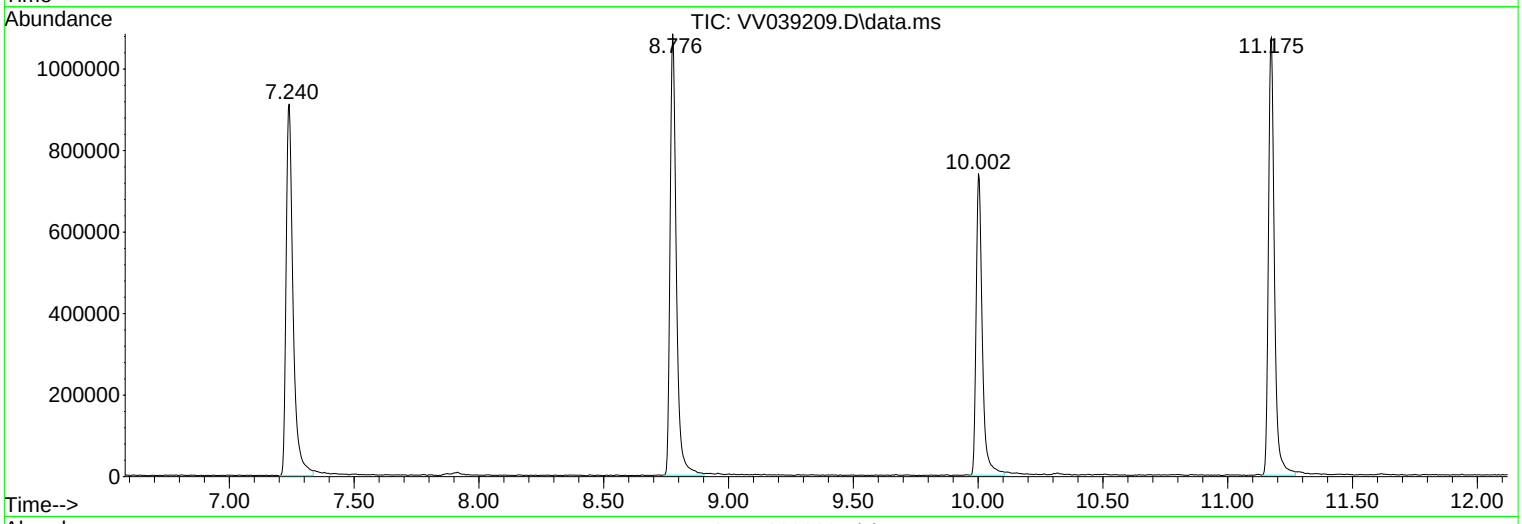
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

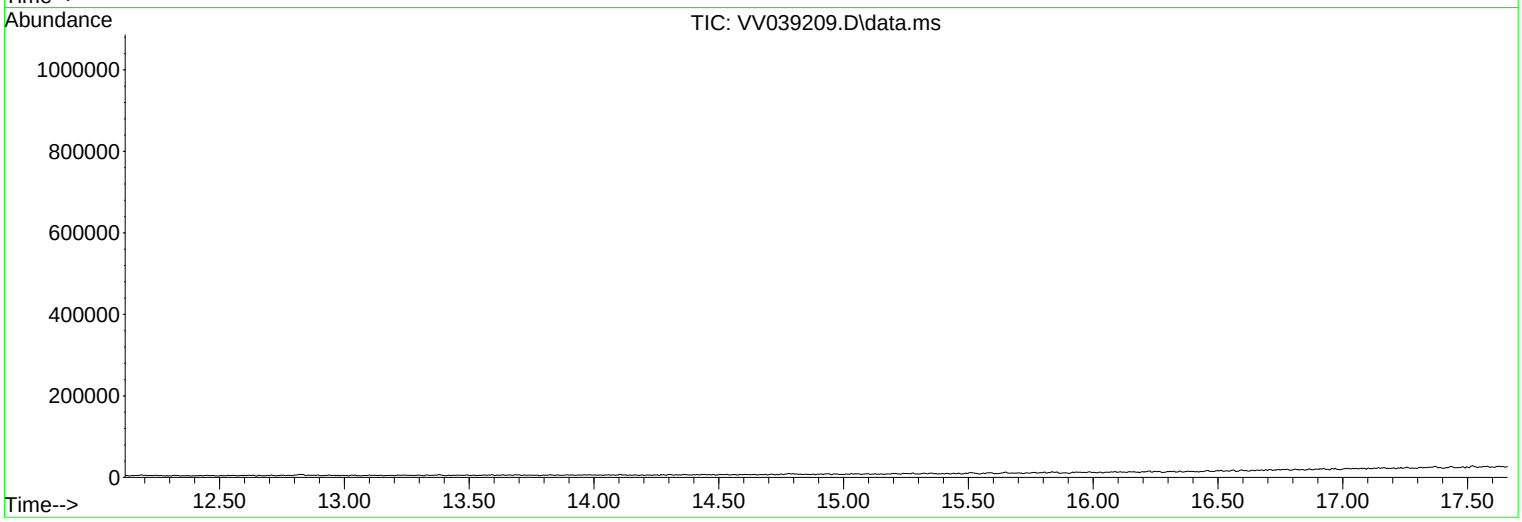
Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19D-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-19M-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039229.D	1	09/29/25 14:16	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	UQ	0.68	5.00	ug/L
108-88-3	Toluene	0.14	UQ	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-19M-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039229.D	1	09/29/25 14:16	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	UQ	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	UQ	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	UQ	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.6		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	56.2		75 - 124	112%	SPK: 50
2037-26-5	Toluene-d8	46.0		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	436000	4.6			
540-36-3	1,4-Difluorobenzene	744000	5.535			
3114-55-4	Chlorobenzene-d5	763000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	379000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-19M-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039229.D	1	09/29/25 14:16	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Quant Time: Sep 30 01:25:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

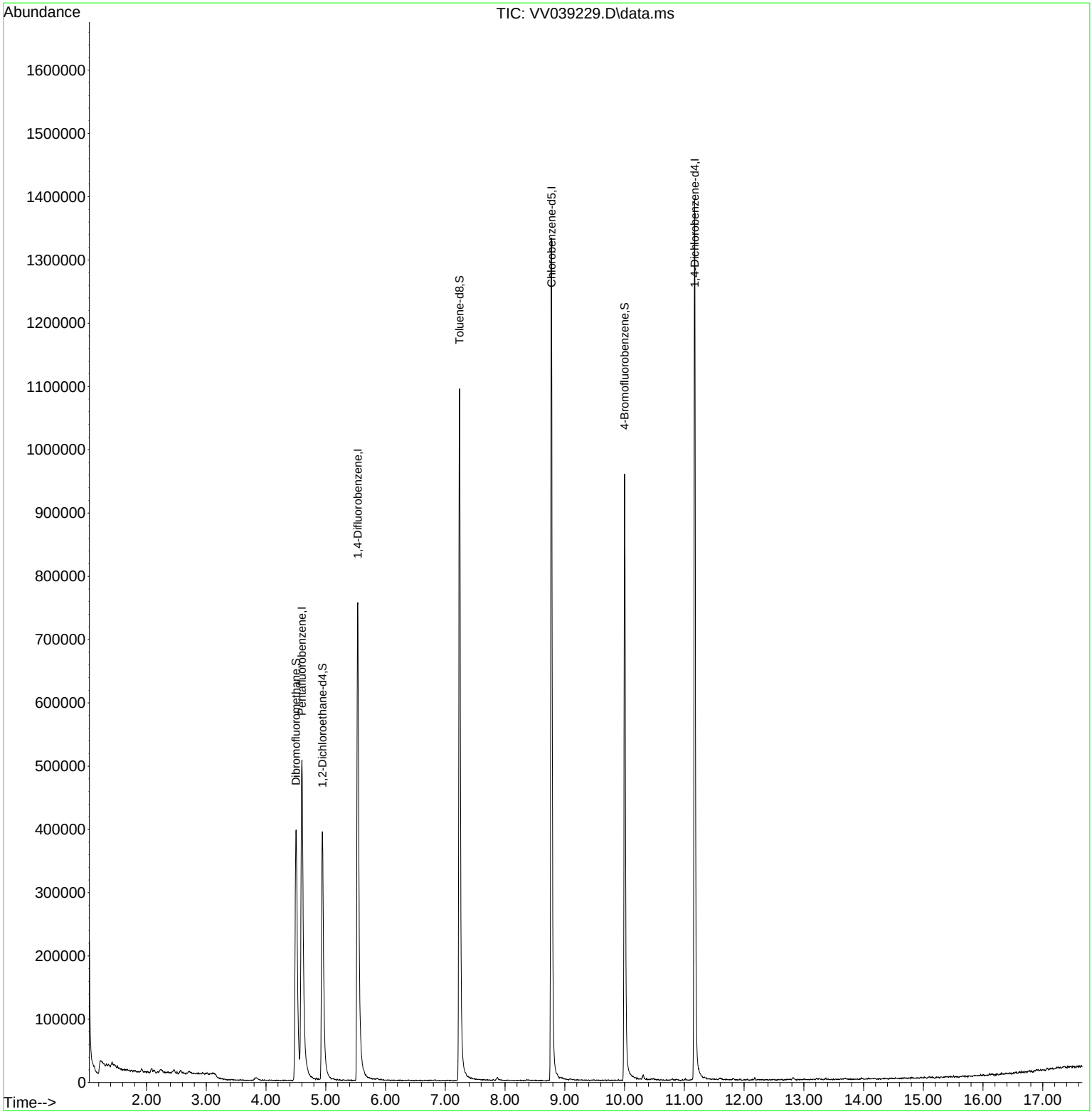
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	435615	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	743567	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	762813	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	378816	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	350302	55.563	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 111.120%			
35) Dibromofluoromethane	4.503	113	336205	56.243	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 112.480%			
50) Toluene-d8	7.239	98	807620	46.001	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.000%			
62) 4-Bromofluorobenzene	10.001	95	325181	44.992	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.980%			
Target Compounds						Qvalue

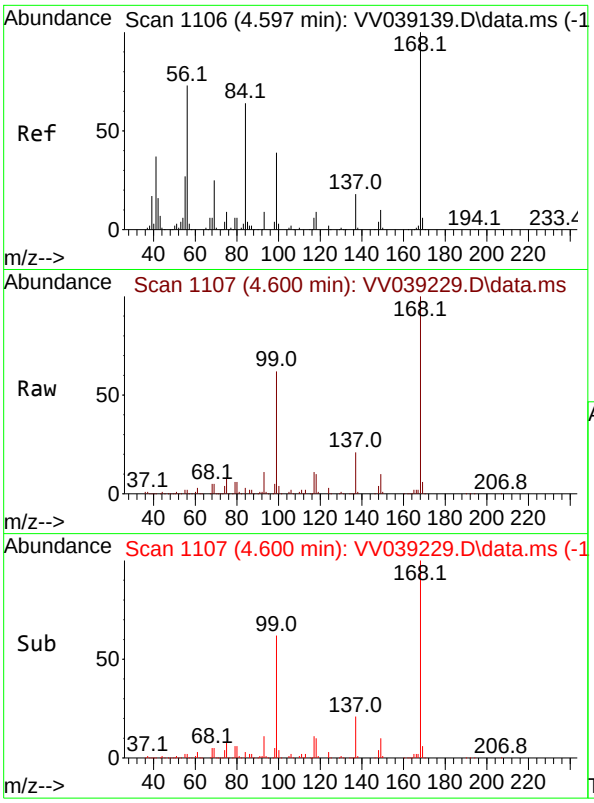
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Quant Time: Sep 30 01:25:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



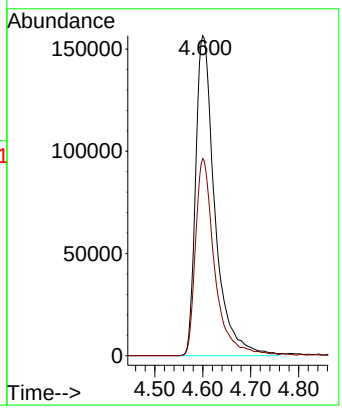


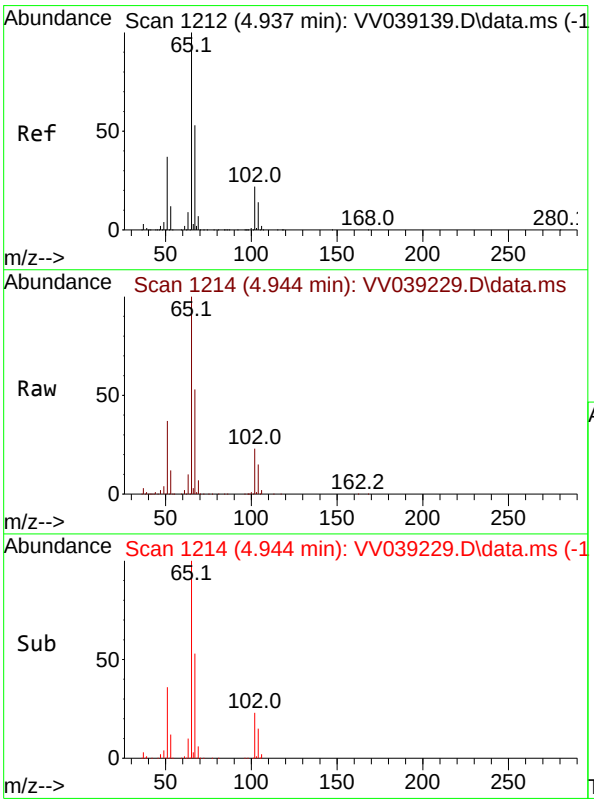
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Tgt Ion:168 Resp: 435615

Ion	Ratio	Lower	Upper
168	100		
99	61.6	49.6	74.4

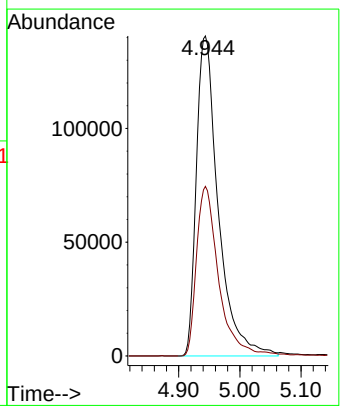


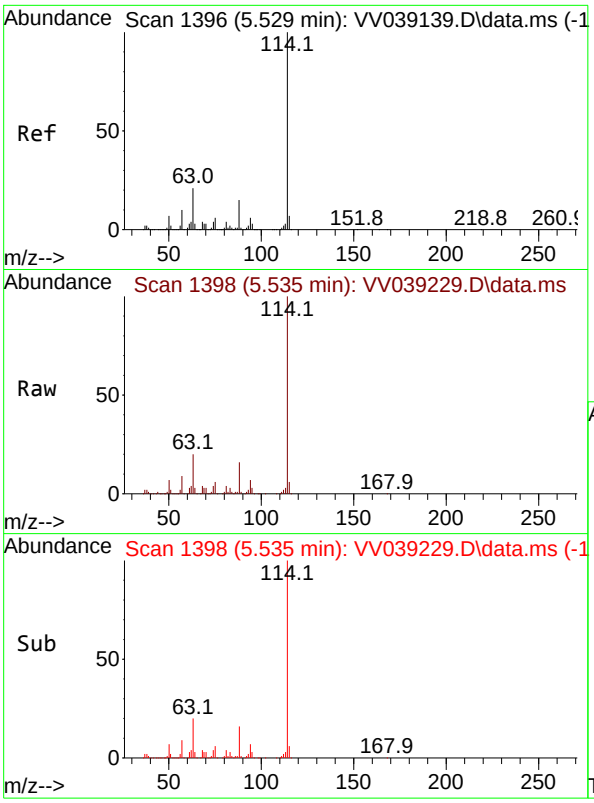


#33
1,2-Dichloroethane-d4
Concen: 55.563 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 65 Resp: 350302

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.0



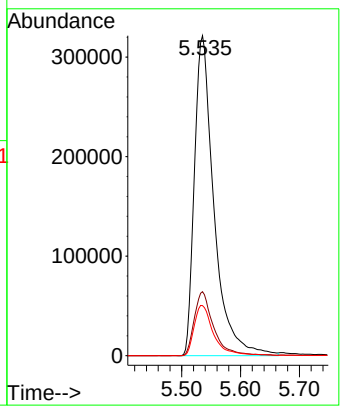


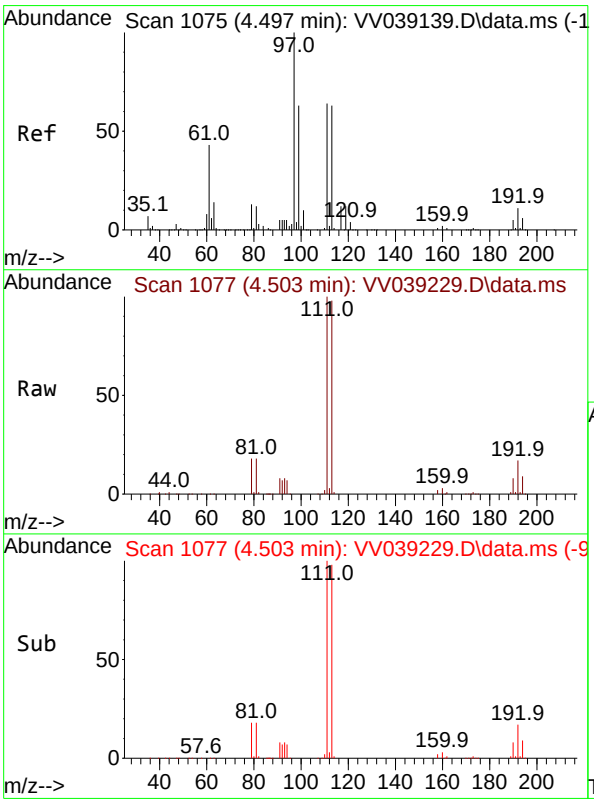
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Tgt Ion:114 Resp: 743567

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	42.6
88	15.7	0.0	30.8

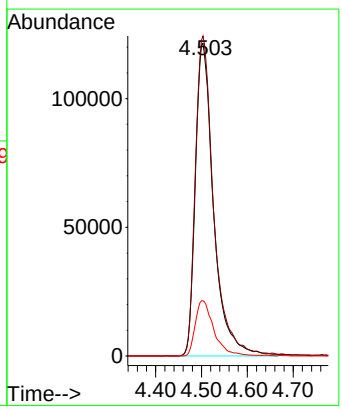


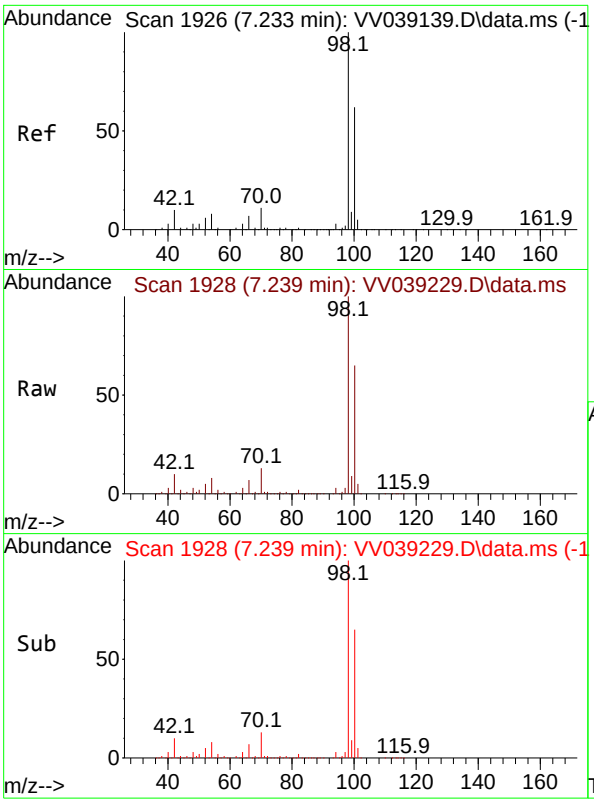


#35
Dibromofluoromethane
Concen: 56.243 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion:113 Resp: 336205

Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.4	123.6
192	18.0	13.8	20.8



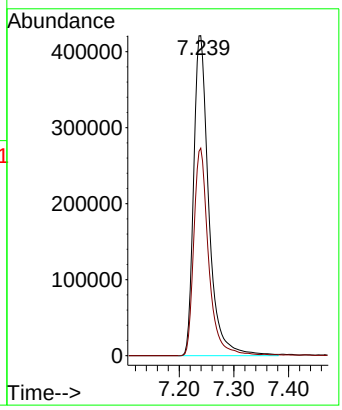


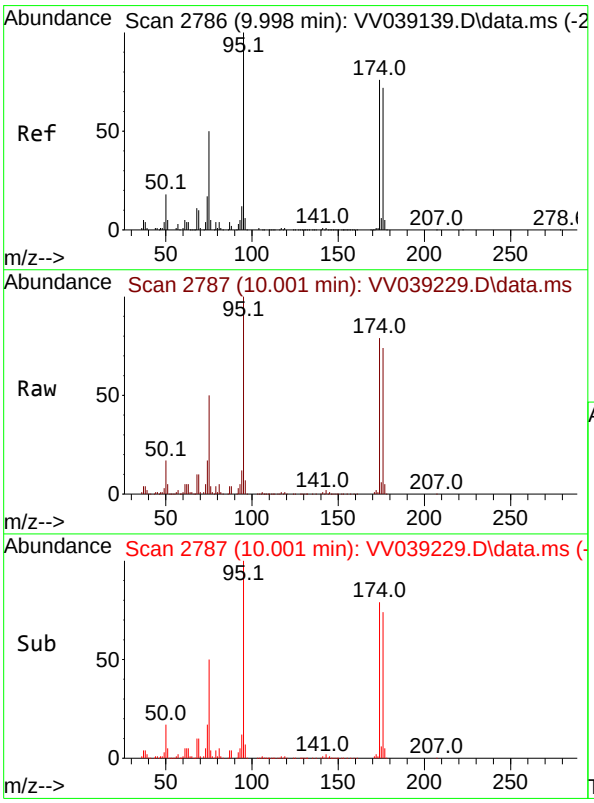
#50
Toluene-d8
Concen: 46.001 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Tgt Ion: 98 Resp: 807620

Ion	Ratio	Lower	Upper
98	100		
100	63.3	52.2	78.2

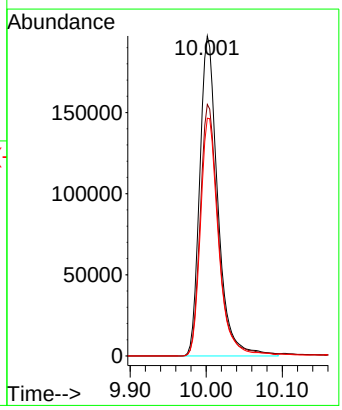


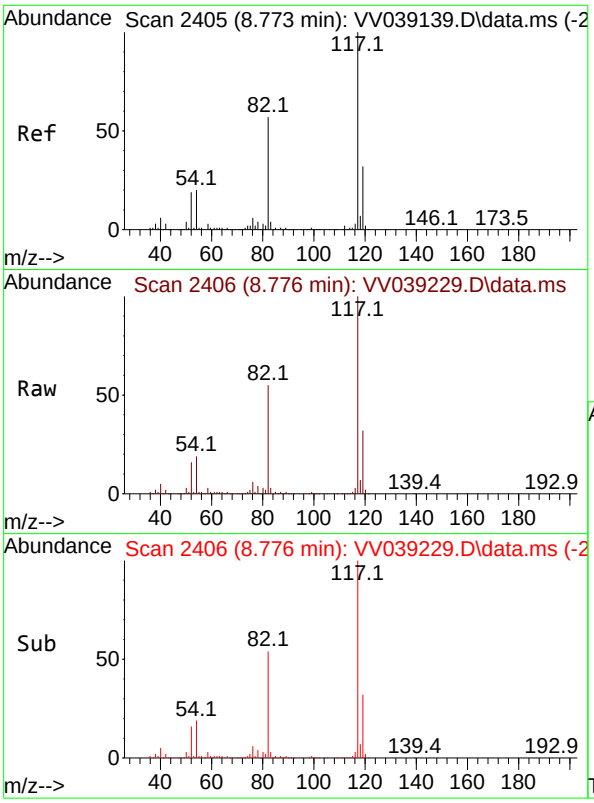


#62
4-Bromofluorobenzene
Concen: 44.992 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 95 Resp: 325181

Ion	Ratio	Lower	Upper
95	100		
174	80.1	0.0	150.4
176	74.6	0.0	144.2



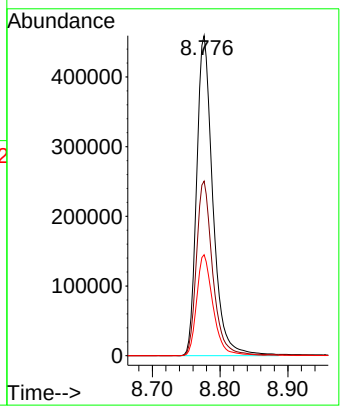


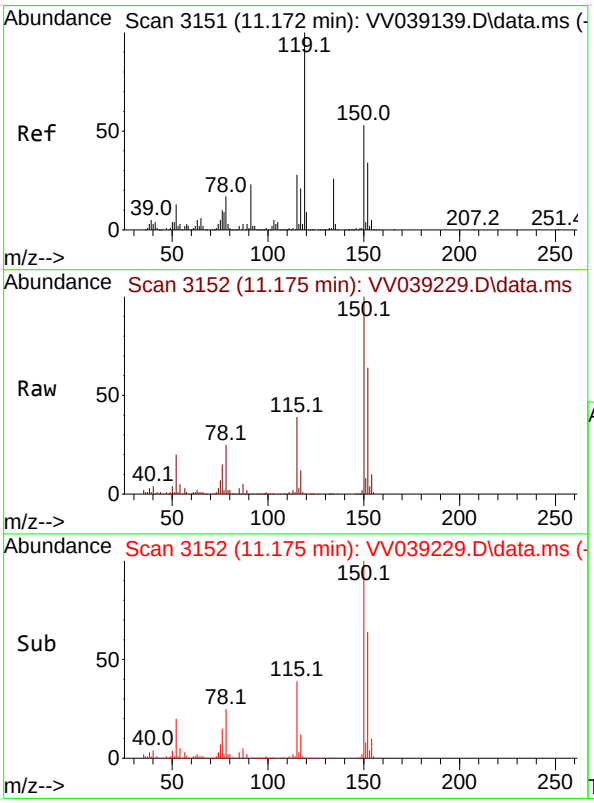
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Tgt Ion:117 Resp: 762813

Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.4	68.2
119	31.6	25.6	38.4

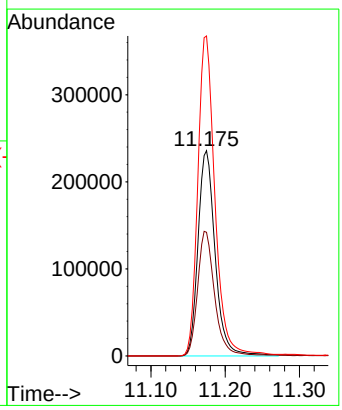




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion:152 Resp: 378816

Ion	Ratio	Lower	Upper
152	100		
115	60.7	44.8	134.4
150	155.9	0.0	353.8



Sample Results: **VV039229.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039229.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.503	1059	1077	1095	rBV	396416	1050223	46.48%	7.840%
2	4.600	1095	1107	1145	rVB	499573	1372387	60.74%	10.245%
3	4.944	1202	1214	1254	rBV	391346	975854	43.19%	7.285%
4	5.535	1386	1398	1439	rBV	755850	1780603	78.80%	13.293%
5	7.239	1913	1928	1968	rBV	1093673	2117086	93.69%	15.805%
6	8.776	2392	2406	2436	rBV	1331835	2259606	100.00%	16.869%
7	10.001	2777	2787	2815	rBV	958402	1597858	70.71%	11.929%
8	11.175	3137	3152	3172	rBV	1392424	2241599	99.20%	16.734%

Sum of corrected areas: 13395216

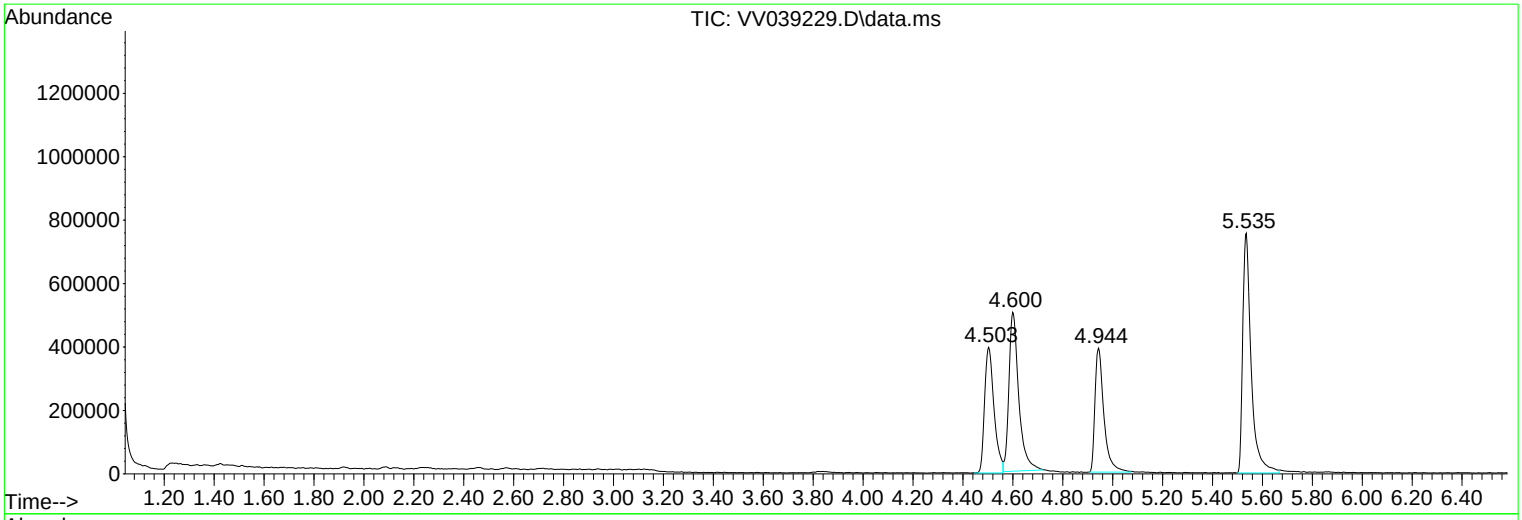
Sample Results: **VV039229.D**

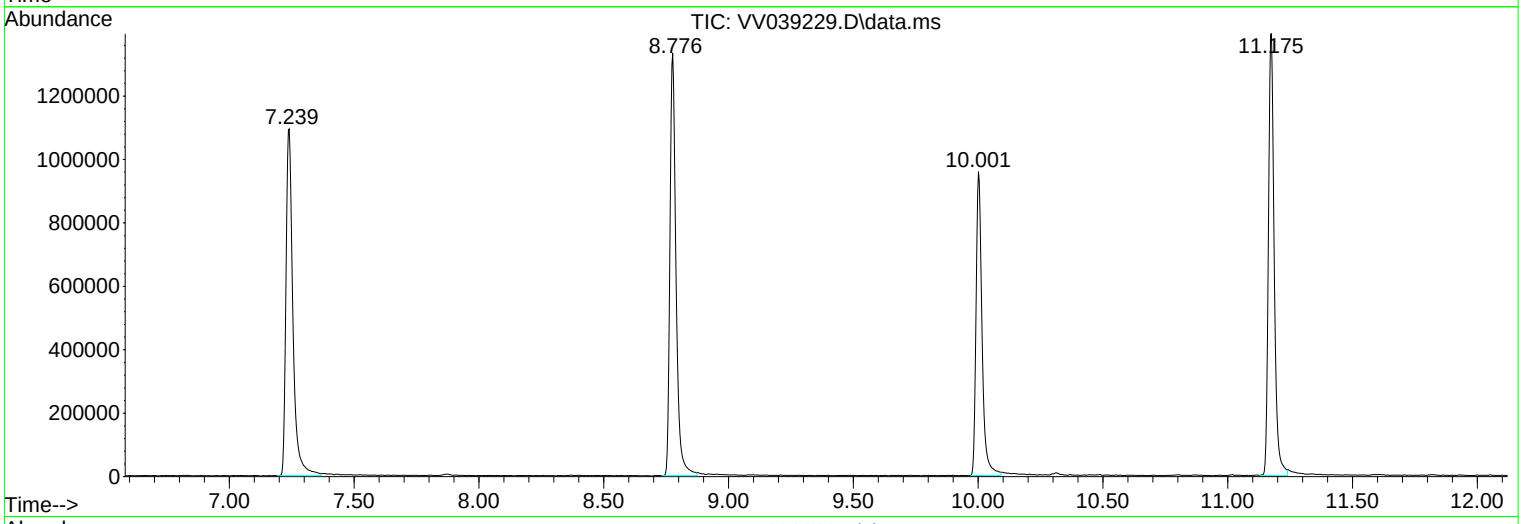
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

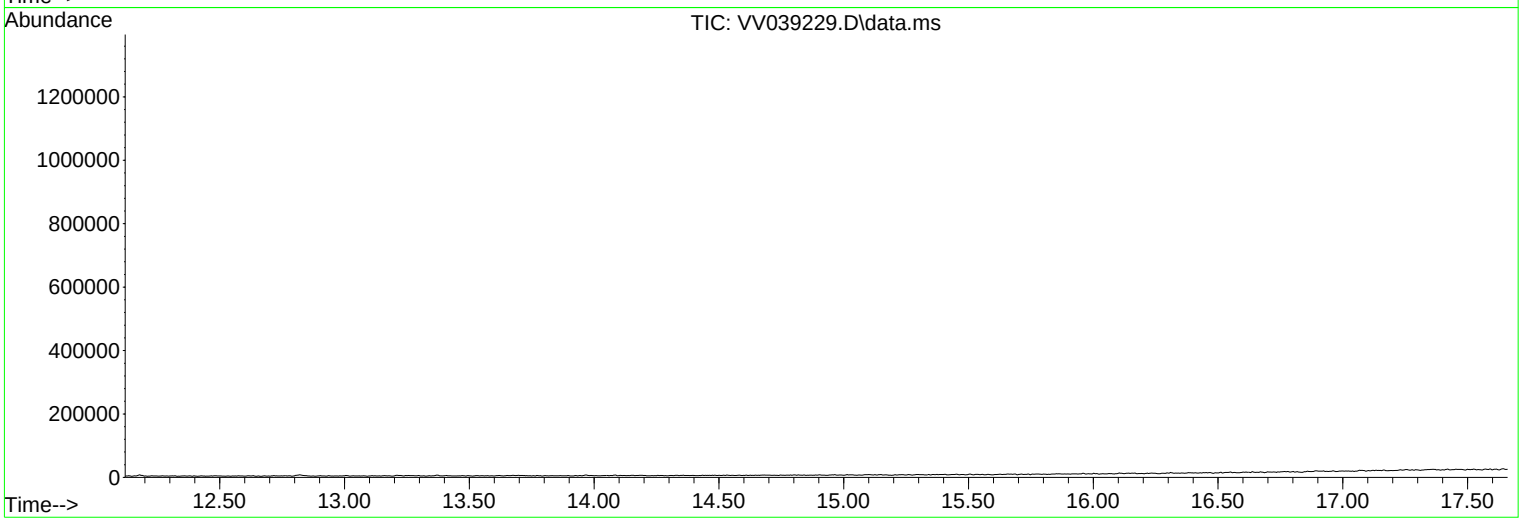
Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-19M-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-21M-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039211.D	1	09/26/25 14:36	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.80		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	2.10		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-21M-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039211.D	1	09/26/25 14:36	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.8		74 - 125	122%	SPK: 50
1868-53-7	Dibromofluoromethane	55.1		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	47.3		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	513000	4.6			
540-36-3	1,4-Difluorobenzene	945000	5.535			
3114-55-4	Chlorobenzene-d5	957000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	451000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-21M-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039211.D	1	09/26/25 14:36	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Quant Time: Sep 27 02:56:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

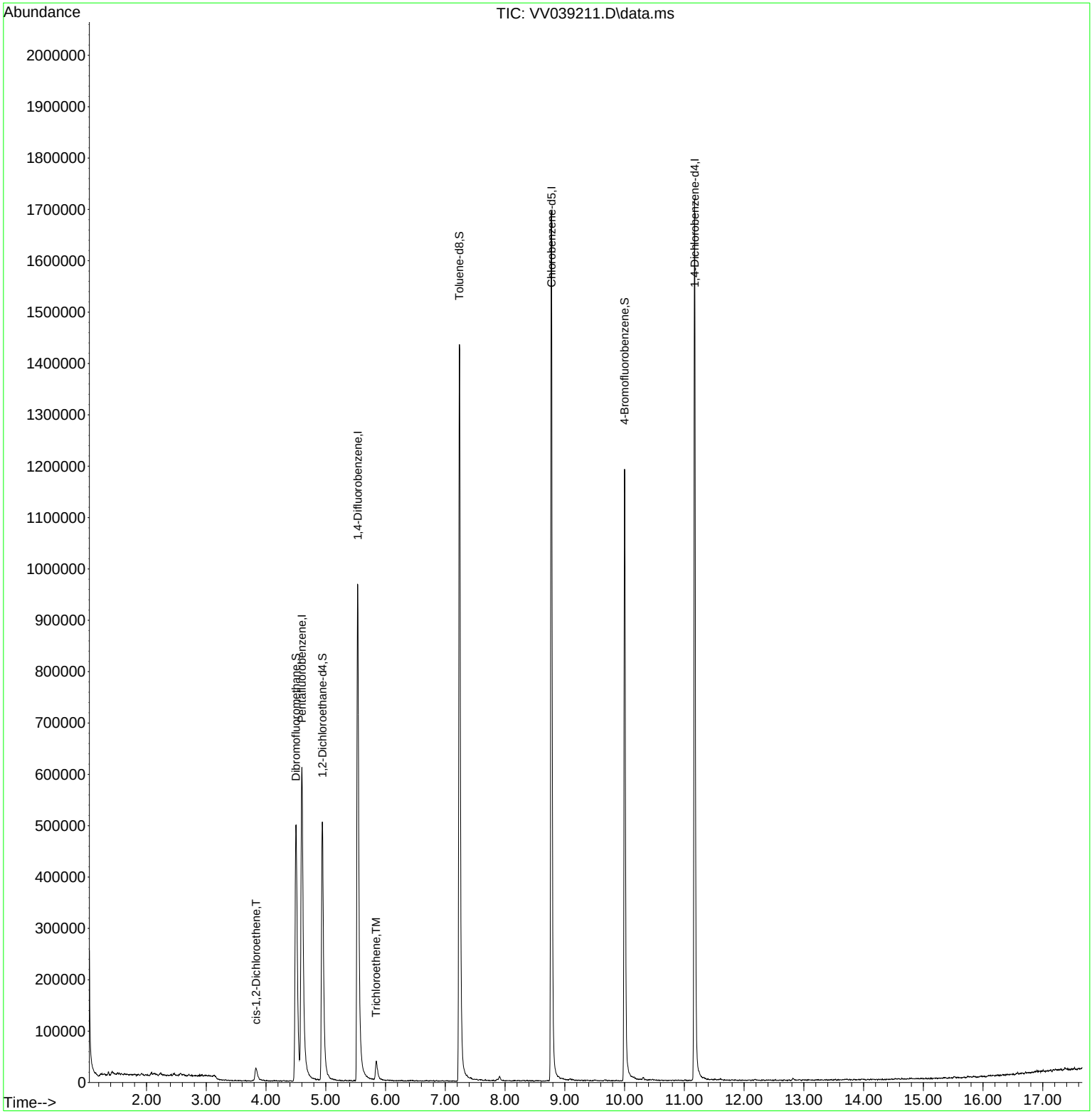
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	513487	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	944501	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	957014	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	451121	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	452207	60.849	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 121.700%#			
35) Dibromofluoromethane	4.500	113	418436	55.108	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 110.220%			
50) Toluene-d8	7.236	98	1055705	47.339	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.680%			
62) 4-Bromofluorobenzene	10.001	95	402477	43.840	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.680%			
Target Compounds						Qvalue
27) cis-1,2-Dichloroethene	3.834	96	16420	1.806	ug/l	82
44) Trichloroethene	5.844	130	17696	2.051	ug/l	85

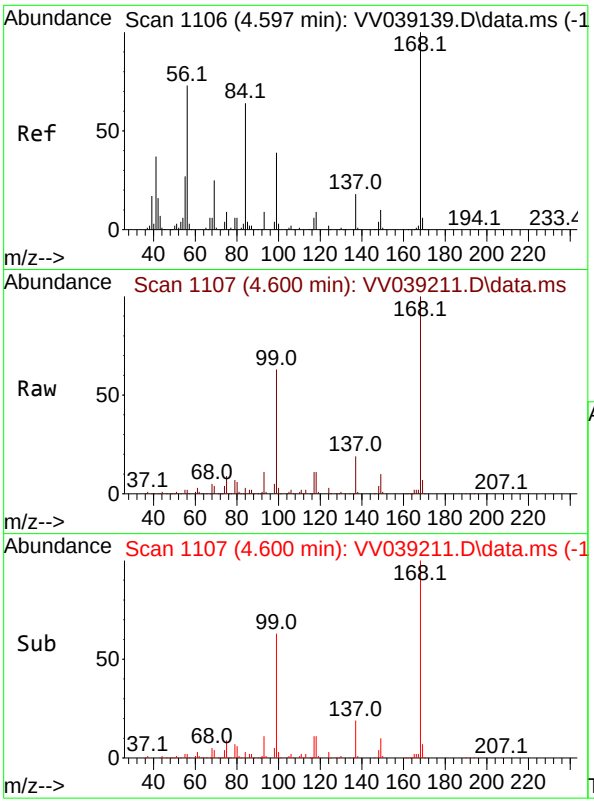
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Quant Time: Sep 27 02:56:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



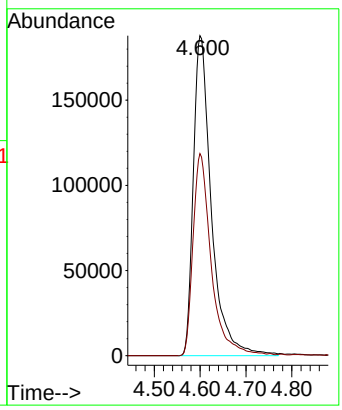


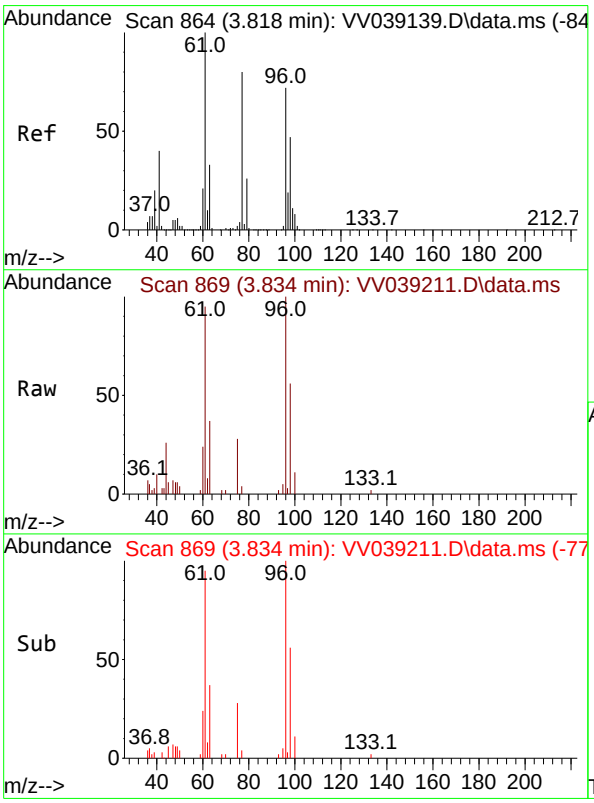
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Tgt Ion:168 Resp: 513487

Ion	Ratio	Lower	Upper
168	100		
99	63.1	49.6	74.4

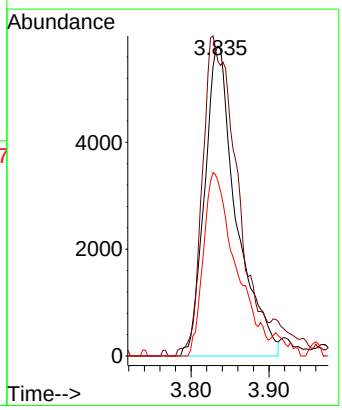


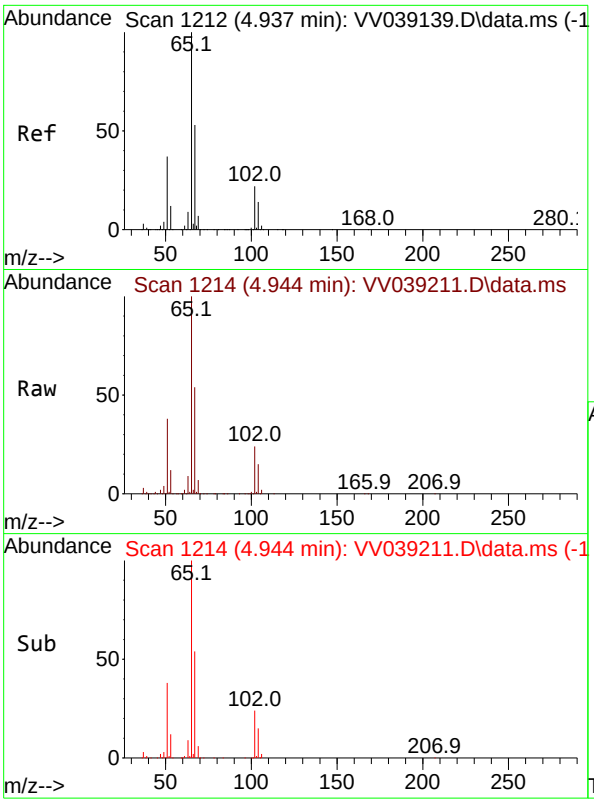


#27
cis-1,2-Dichloroethene
Concen: 1.806 ug/l
RT: 3.834 min Scan# 869
Delta R.T. 0.016 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion: 96 Resp: 16420

Ion	Ratio	Lower	Upper
96	100		
61	112.9	0.0	286.4
98	60.5	0.0	126.6



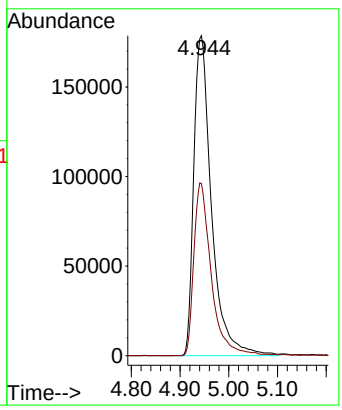


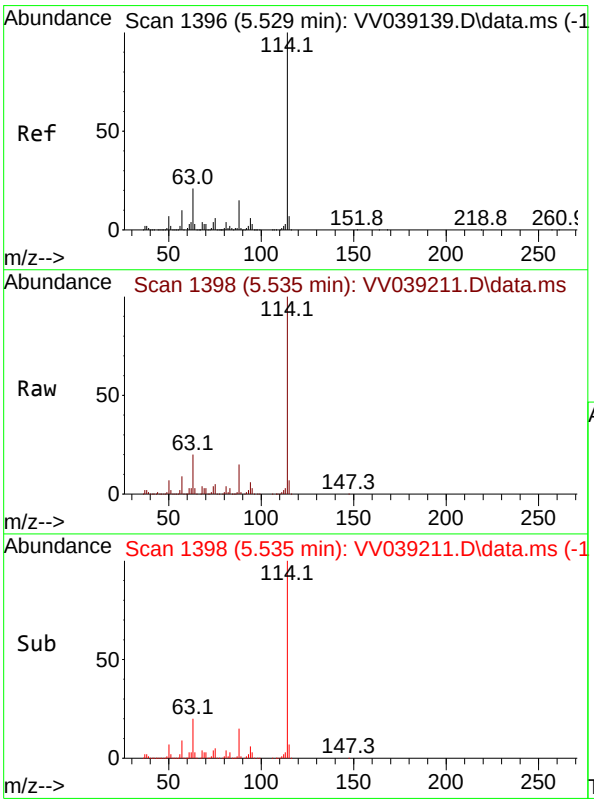
#33
1,2-Dichloroethane-d4
Concen: 60.849 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Tgt Ion: 65 Resp: 452207

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	107.0

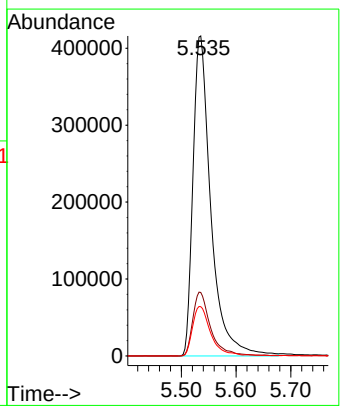


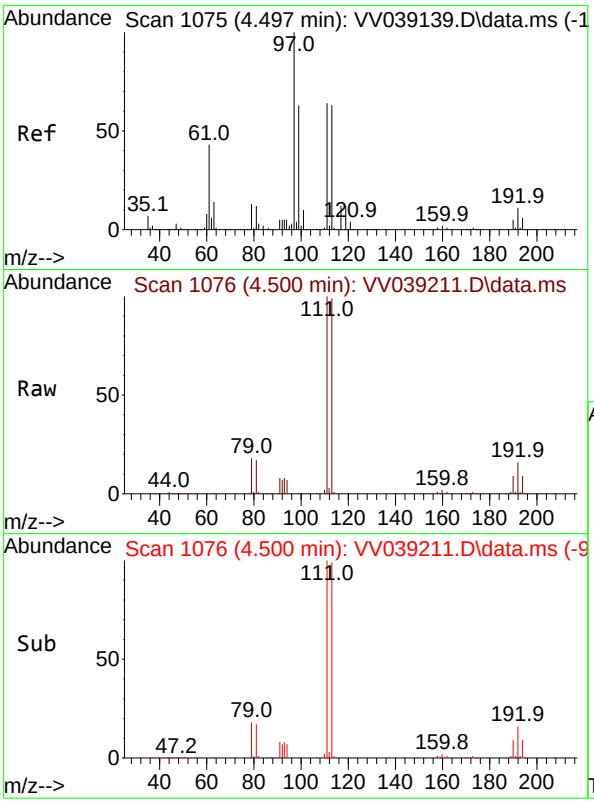


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion:114 Resp: 944501

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.6
88	15.4	0.0	30.8



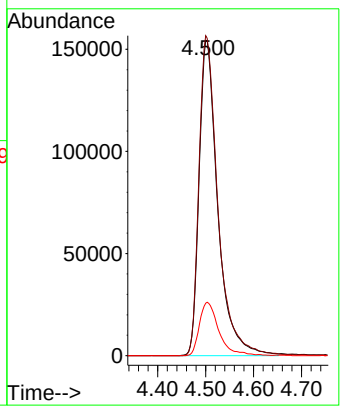


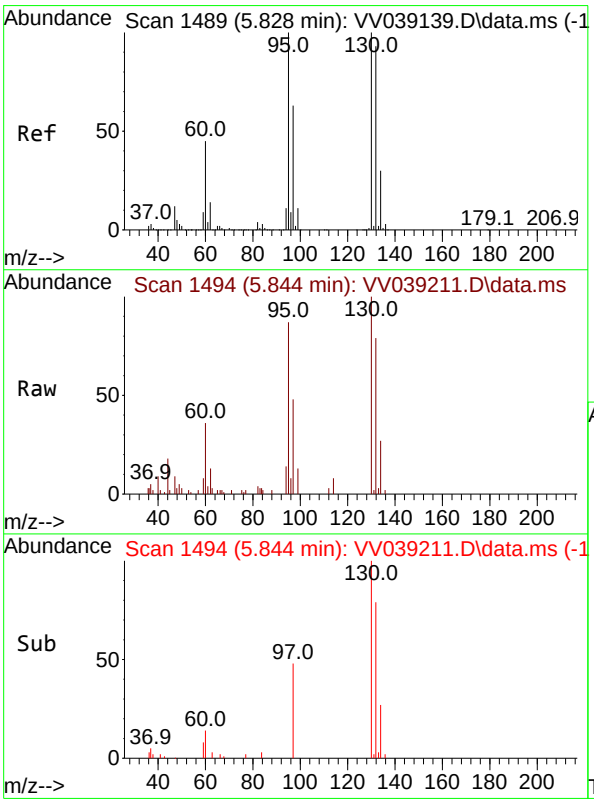
#35
Dibromofluoromethane
Concen: 55.108 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Tgt Ion:113 Resp: 418436

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	17.6	13.8	20.8

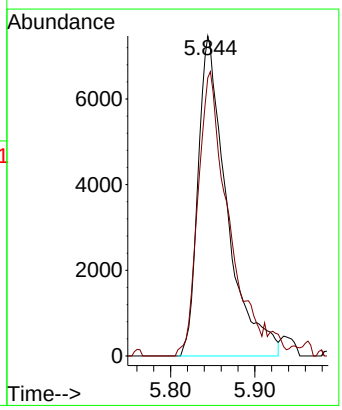


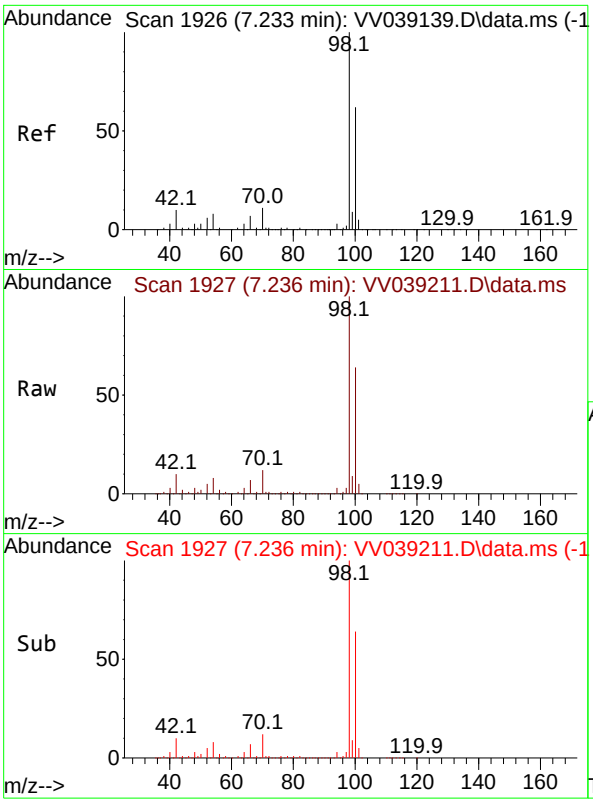


#44
Trichloroethene
Concen: 2.051 ug/l
RT: 5.844 min Scan# 1494
Delta R.T. 0.016 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion:130 Resp: 17696

Ion	Ratio	Lower	Upper
130	100		
95	85.0	0.0	199.2



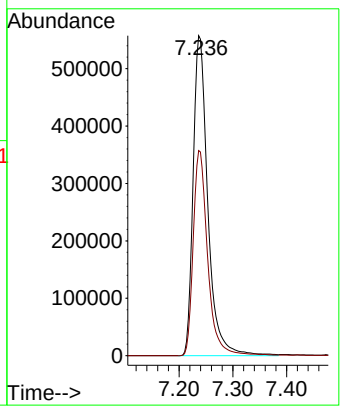


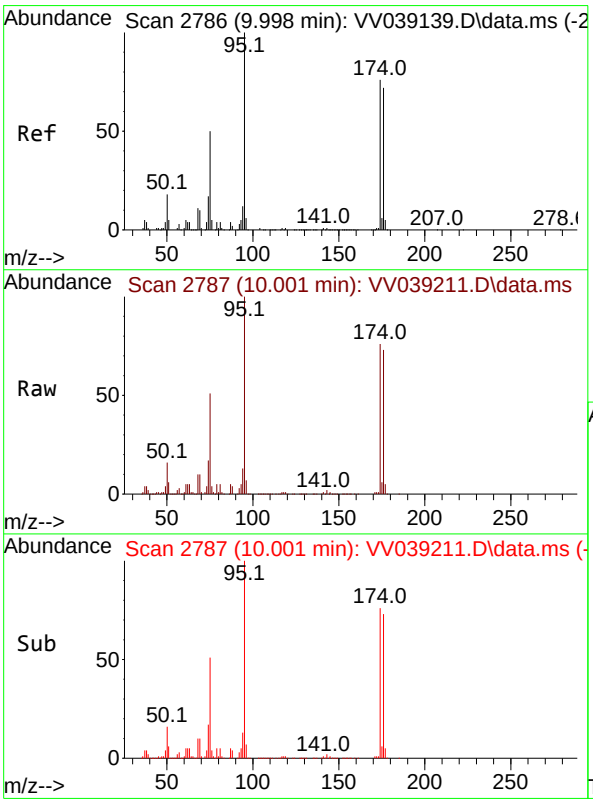
#50
Toluene-d8
Concen: 47.339 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Tgt Ion: 98 Resp: 1055705

Ion	Ratio	Lower	Upper
98	100		
100	63.0	52.2	78.2

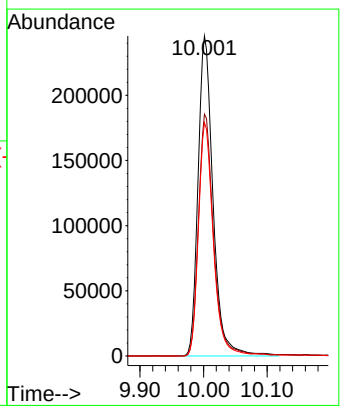


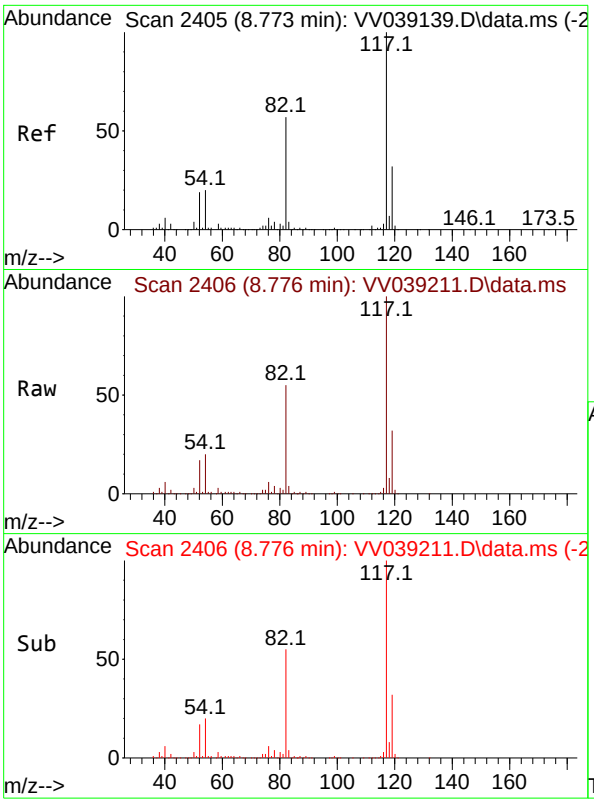


#62
4-Bromofluorobenzene
Concen: 43.840 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion: 95 Resp: 402477

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	150.4
176	72.7	0.0	144.2



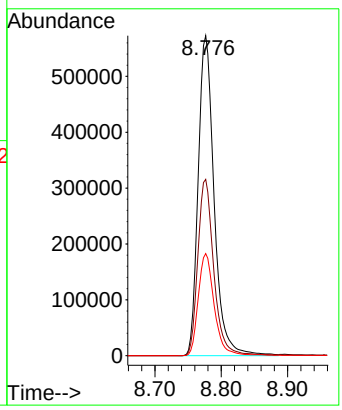


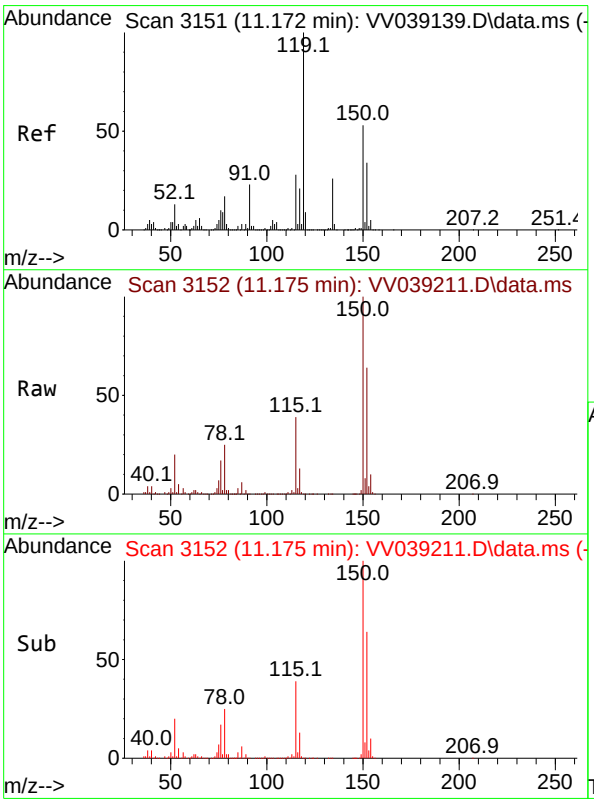
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Tgt Ion:117 Resp: 957014

Ion	Ratio	Lower	Upper
117	100		
82	55.1	45.4	68.2
119	31.9	25.6	38.4

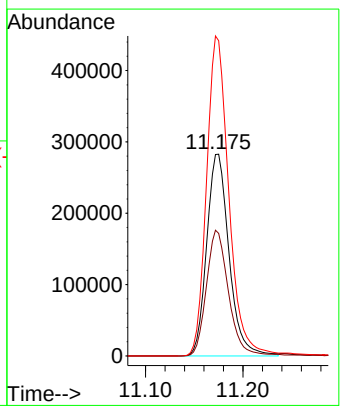




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion:152 Resp: 451121

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.8	134.4
150	158.8	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039211.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.831	856	868	889	rBV4	24211	68230	2.38%	0.402%
2	4.503	1061	1077	1095	rBV	498585	1309821	45.63%	7.722%
3	4.600	1095	1107	1145	rVB	602576	1647635	57.40%	9.713%
4	4.944	1200	1214	1255	rBV	502521	1265682	44.09%	7.462%
5	5.532	1386	1397	1443	rBV	966903	2254579	78.54%	13.291%
6	5.844	1482	1494	1514	rBV3	36005	88882	3.10%	0.524%
7	7.236	1915	1927	1957	rBV	1434812	2734246	95.25%	16.119%
8	8.776	2394	2406	2438	rBV	1693539	2870553	100.00%	16.923%
9	10.001	2776	2787	2820	rBV	1190808	1973947	68.77%	11.637%
10	11.172	3137	3151	3173	rBV	1716199	2749220	95.77%	16.207%

Sum of corrected areas: 16962795

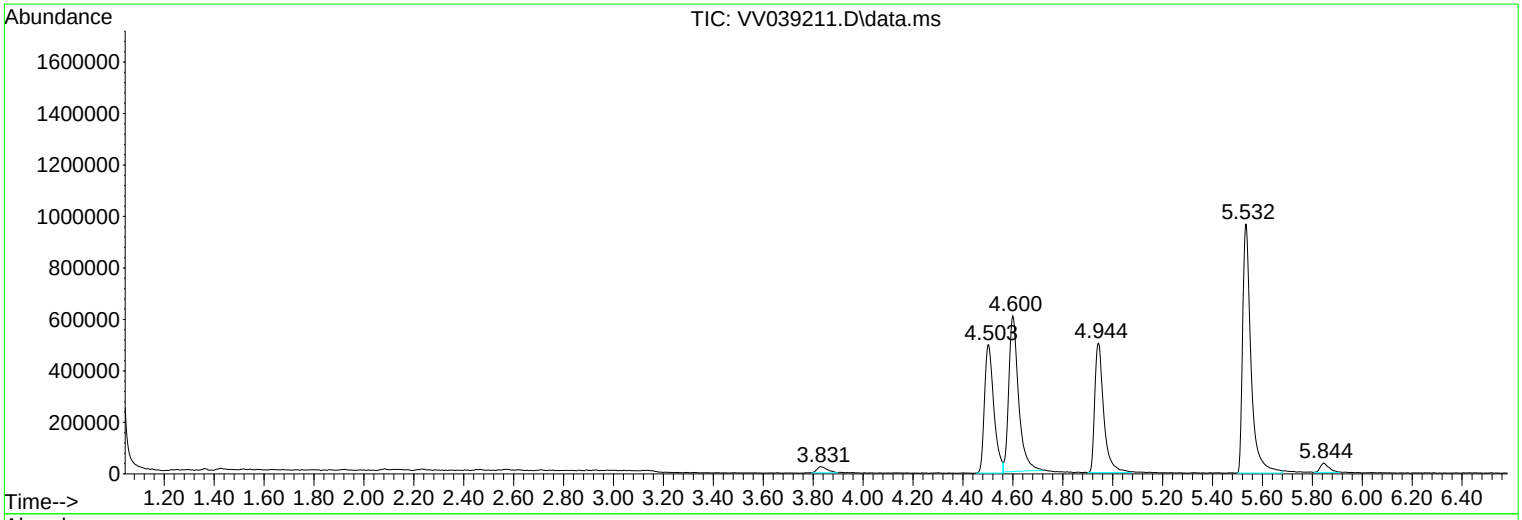
Sample Results: **VV039211.D**

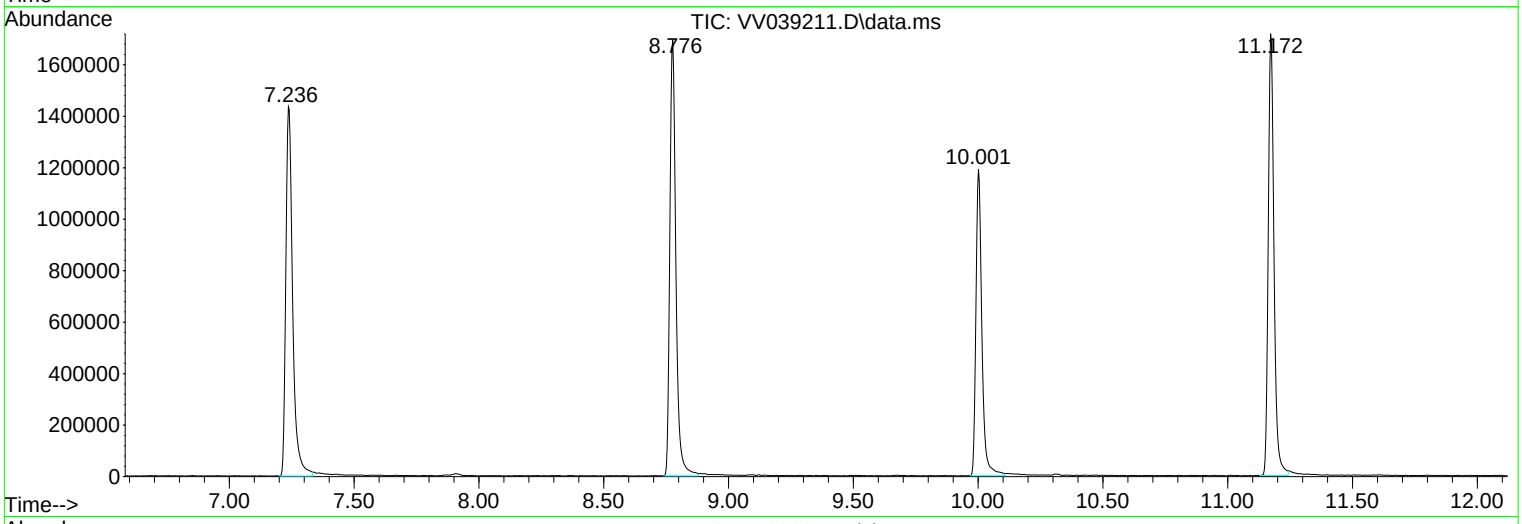
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

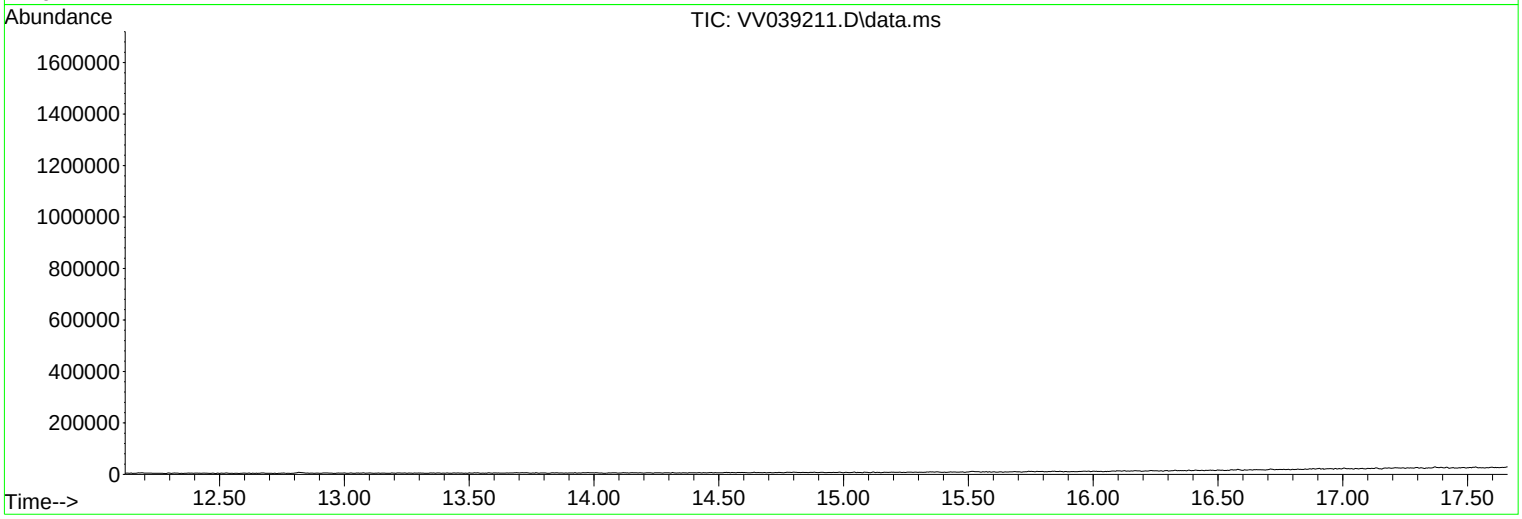
Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-21M-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-22-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039193.D	1	09/25/25 19:40	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.80		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.98	J	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-22-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039193.D	1	09/25/25 19:40	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.4		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	525000	4.603			
540-36-3	1,4-Difluorobenzene	957000	5.535			
3114-55-4	Chlorobenzene-d5	943000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	451000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-22-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039193.D	1	09/25/25 19:40	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Quant Time: Sep 26 01:38:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

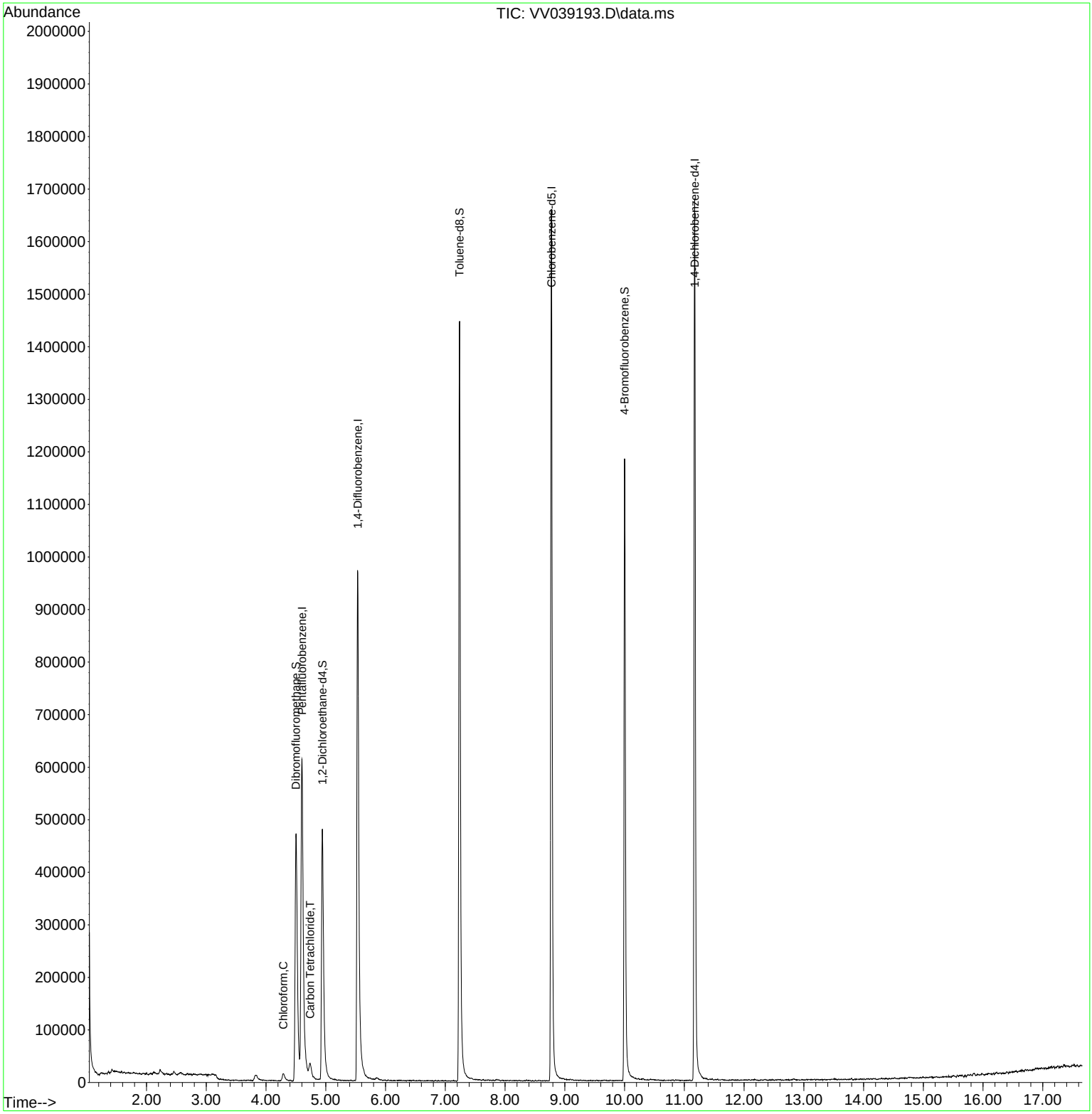
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	525270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	956838	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	943207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	451495	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	428579	56.376	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 112.760%			
35) Dibromofluoromethane	4.503	113	392109	50.975	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 101.940%			
50) Toluene-d8	7.239	98	1050090	46.480	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.960%			
62) 4-Bromofluorobenzene	10.001	95	412268	44.327	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.660%			
Target Compounds						Qvalue
30) Chloroform	4.291	83	16860	0.975	ug/l	100
38) Carbon Tetrachloride	4.738	117	24918m	1.753	ug/l	

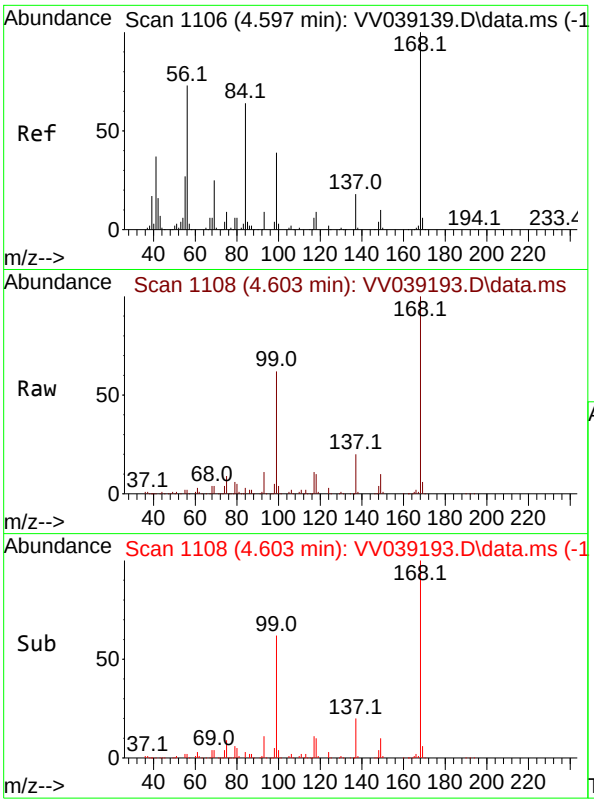
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Quant Time: Sep 26 01:38:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



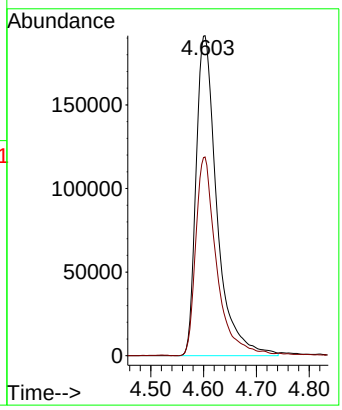


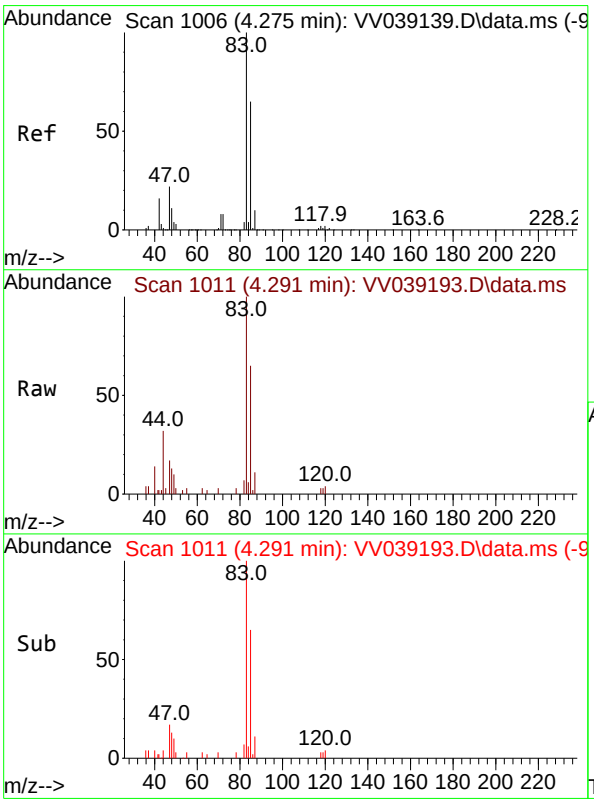
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Tgt Ion:168 Resp: 525270

Ion	Ratio	Lower	Upper
168	100		
99	62.1	49.6	74.4

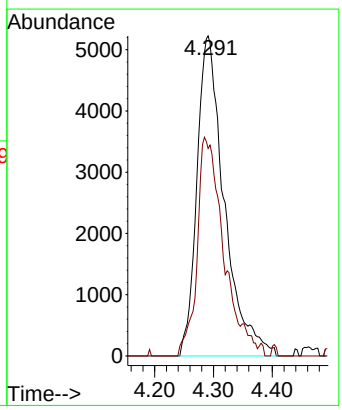


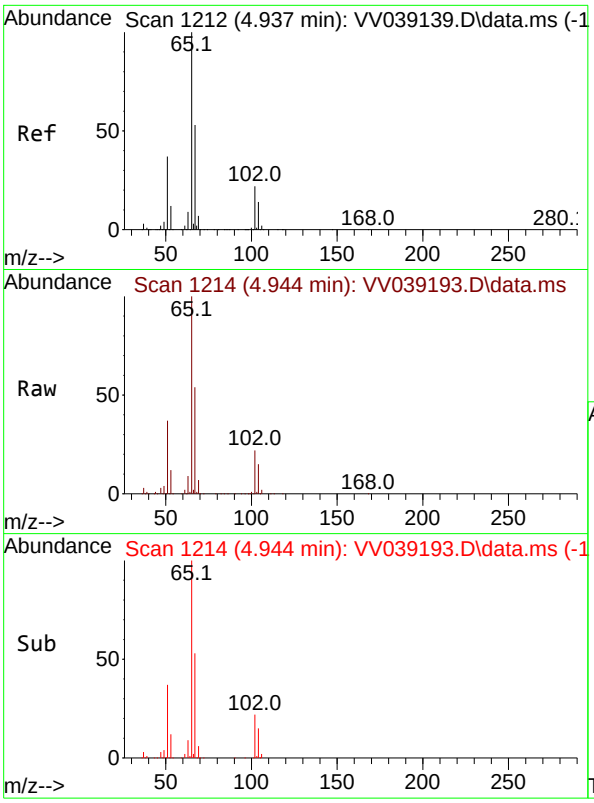


#30
Chloroform
Concen: 0.975 ug/l
RT: 4.291 min Scan# 1011
Delta R.T. 0.016 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 83 Resp: 16860

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.1	78.1



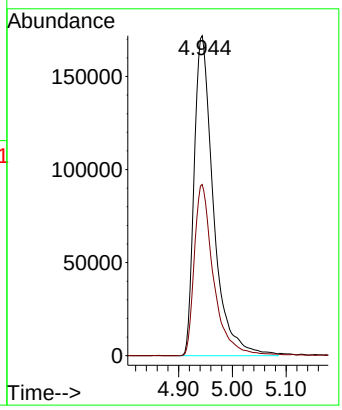


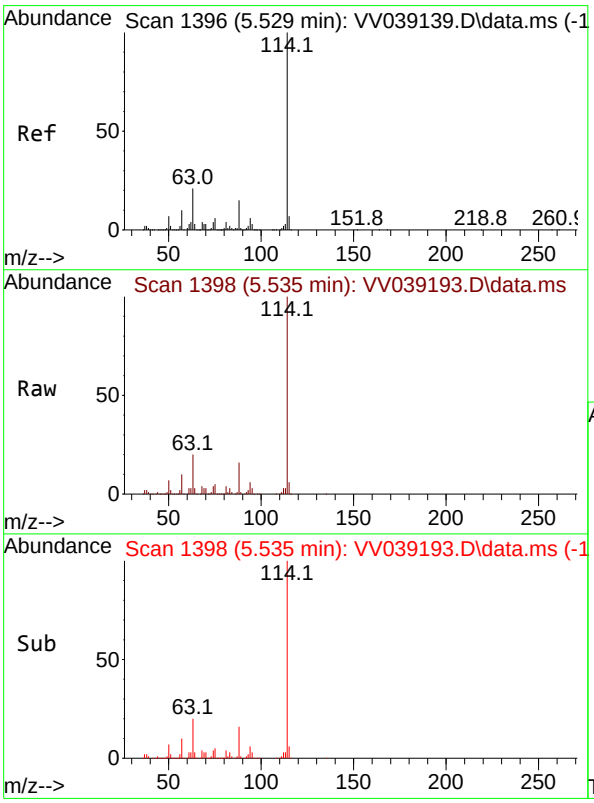
#33
1,2-Dichloroethane-d4
Concen: 56.376 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Tgt Ion: 65 Resp: 428579

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	107.0

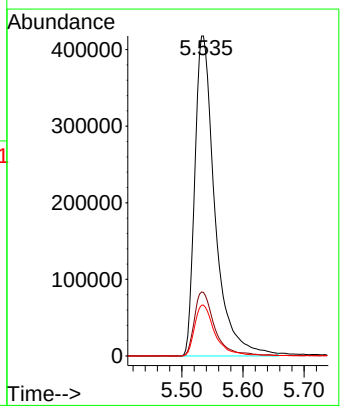


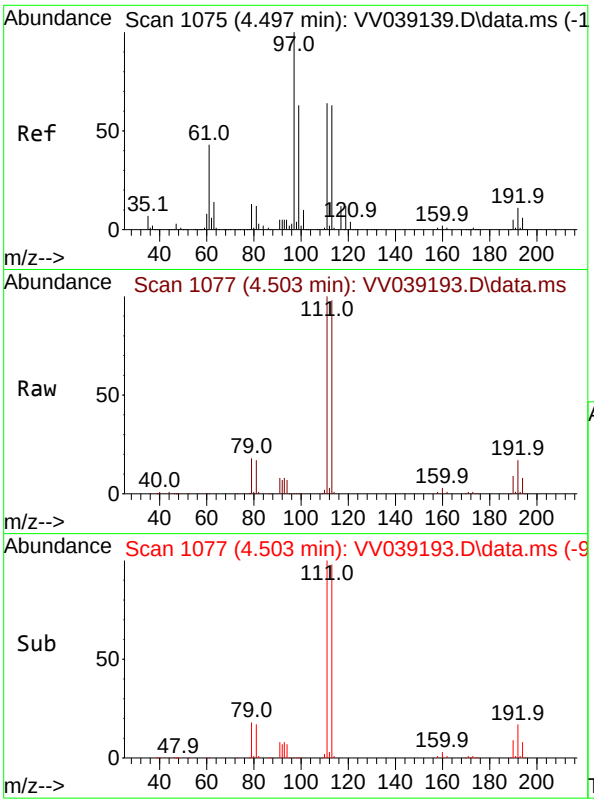


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion:114 Resp: 956838

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	42.6
88	15.9	0.0	30.8



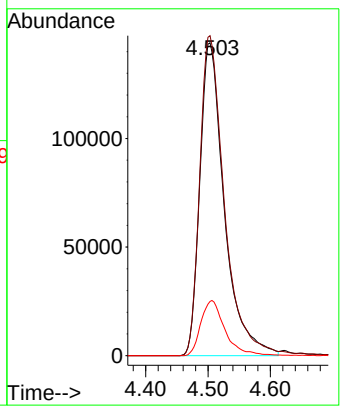


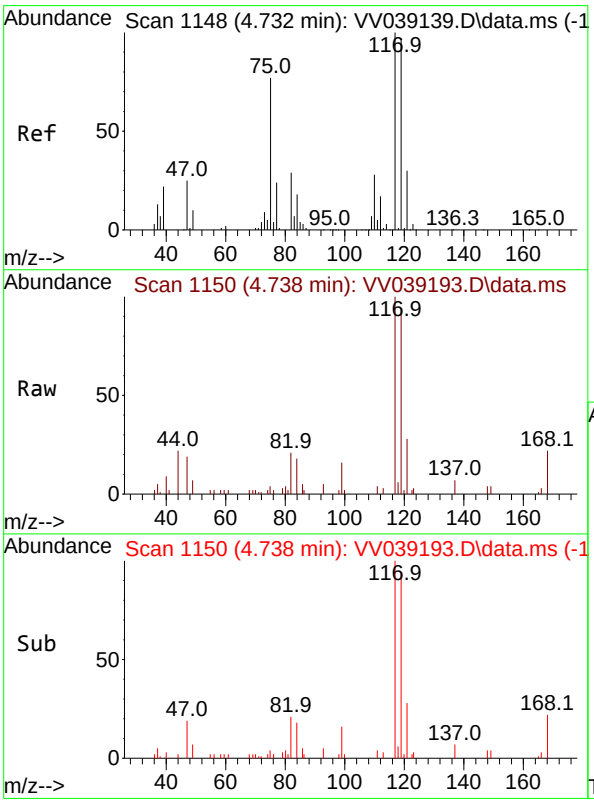
#35
Dibromofluoromethane
Concen: 50.975 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Tgt Ion:113 Resp: 392109

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.4	123.6
192	17.6	13.8	20.8

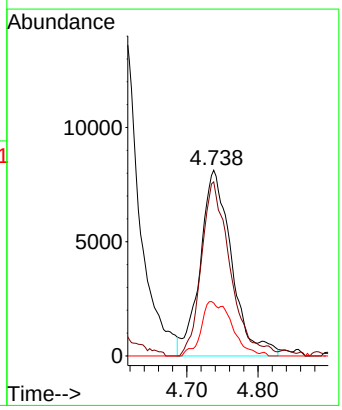


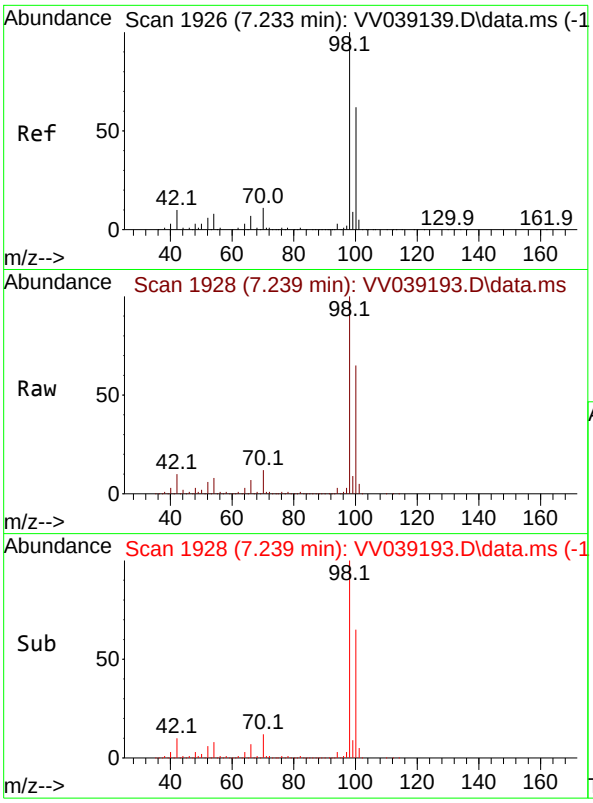


#38
Carbon Tetrachloride
Concen: 1.753 ug/l m
RT: 4.738 min Scan# 1150
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion:117 Resp: 24918

Ion	Ratio	Lower	Upper
117	100		
119	93.7	77.2	115.8
121	28.5	24.2	36.2



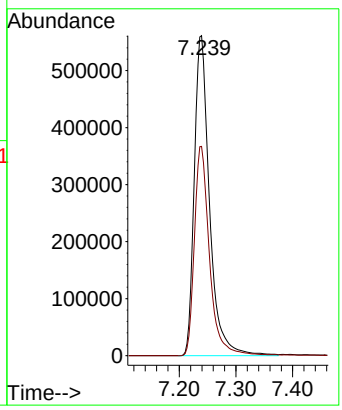


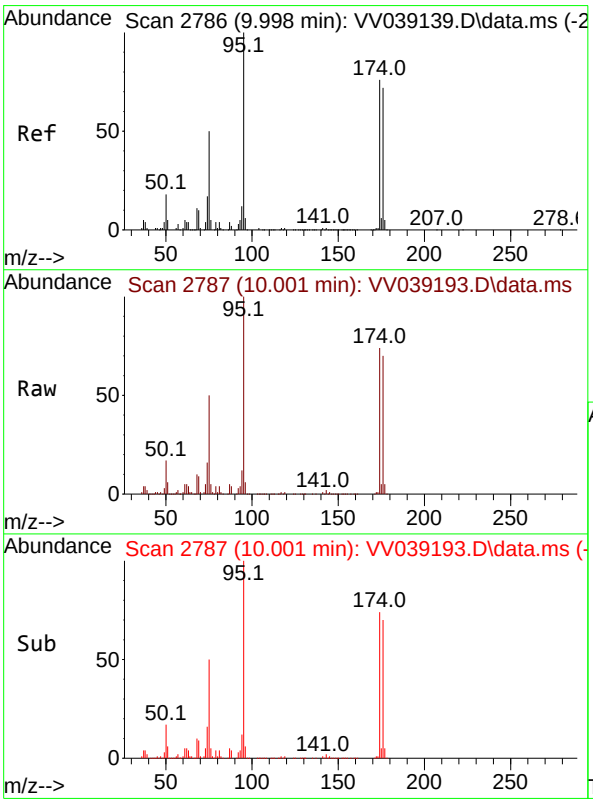
#50
Toluene-d8
Concen: 46.480 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Tgt Ion: 98 Resp: 1050090

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

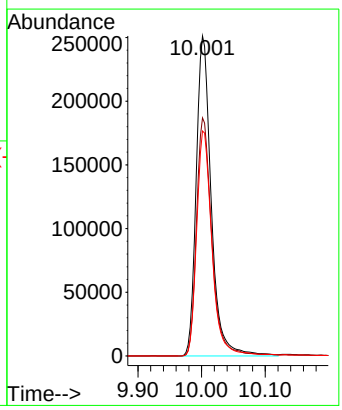


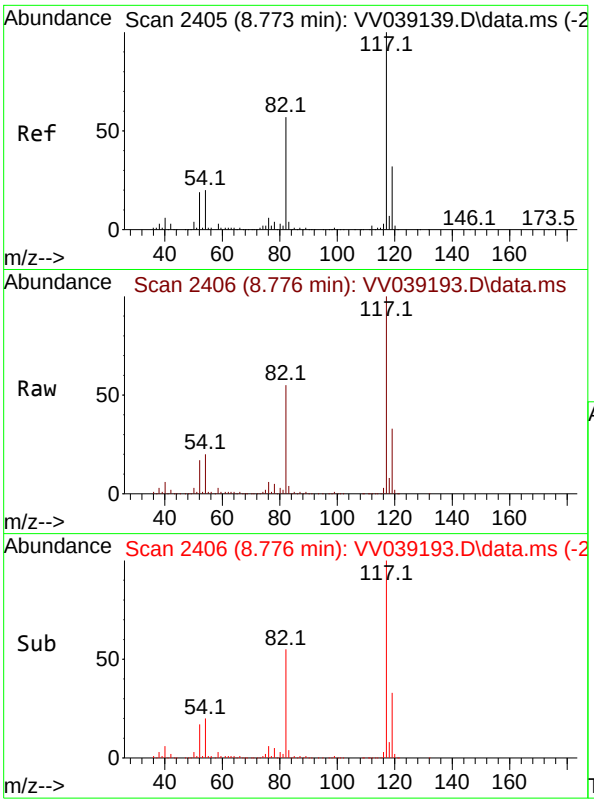


#62
4-Bromofluorobenzene
Concen: 44.327 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 95 Resp: 412268

Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	150.4
176	71.3	0.0	144.2



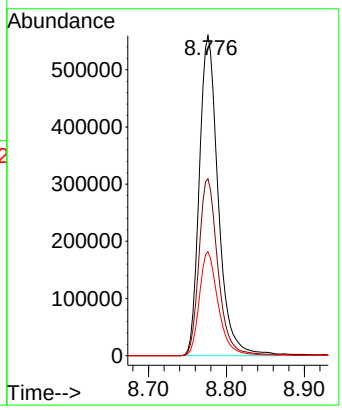


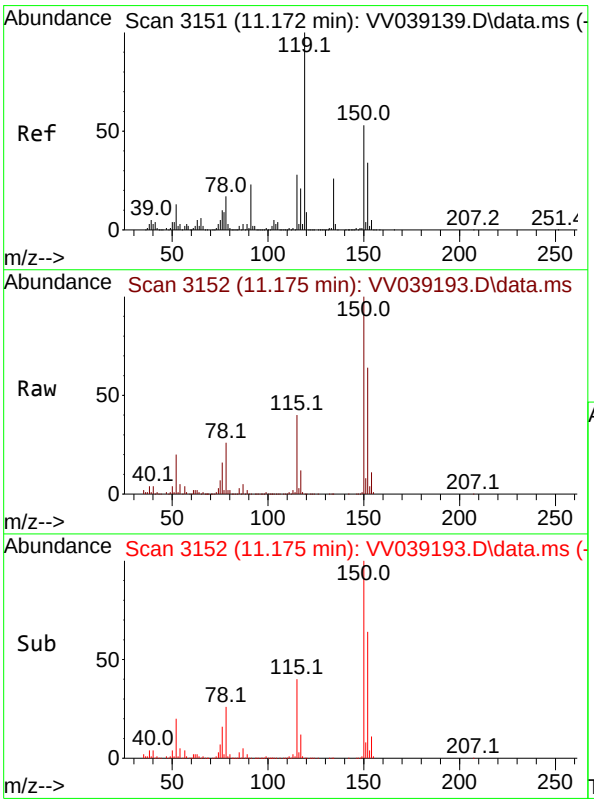
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Tgt Ion:117 Resp: 943207

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.4	68.2
119	32.5	25.6	38.4

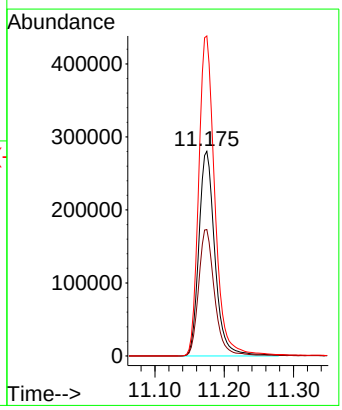




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion:152 Resp: 451495

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.8	134.4
150	157.3	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039193.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.288	994	1010	1029	rBV4	13875	43721	1.54%	0.263%
2	4.503	1062	1077	1095	rBV2	470422	1229519	43.20%	7.392%
3	4.600	1096	1107	1139	rVB	597797	1595162	56.04%	9.591%
4	4.944	1202	1214	1257	rBV	476169	1179001	41.42%	7.089%
5	5.532	1386	1397	1439	rBV	971036	2264736	79.57%	13.616%
6	7.239	1916	1928	1963	rBV	1445601	2732959	96.02%	16.432%
7	8.776	2394	2406	2439	rBV	1658867	2846331	100.00%	17.113%
8	10.001	2776	2787	2819	rBV	1183694	1979997	69.56%	11.904%
9	11.175	3138	3152	3189	rBV	1677940	2760928	97.00%	16.600%

Sum of corrected areas: 16632354

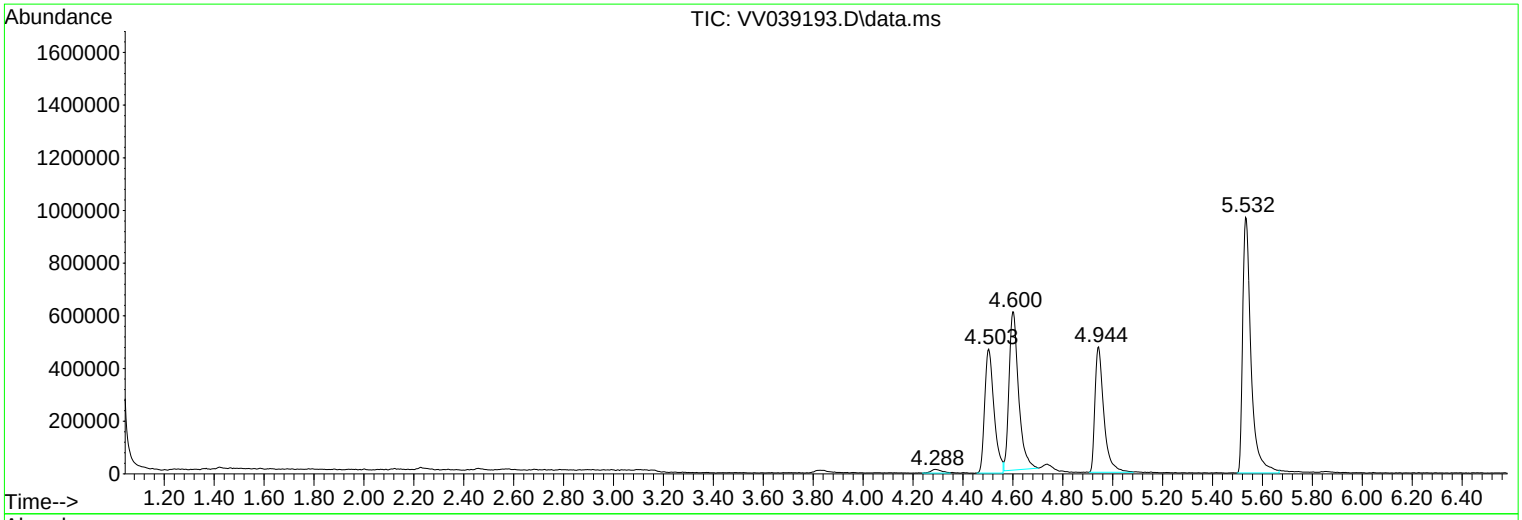
Sample Results: **VV039193.D**

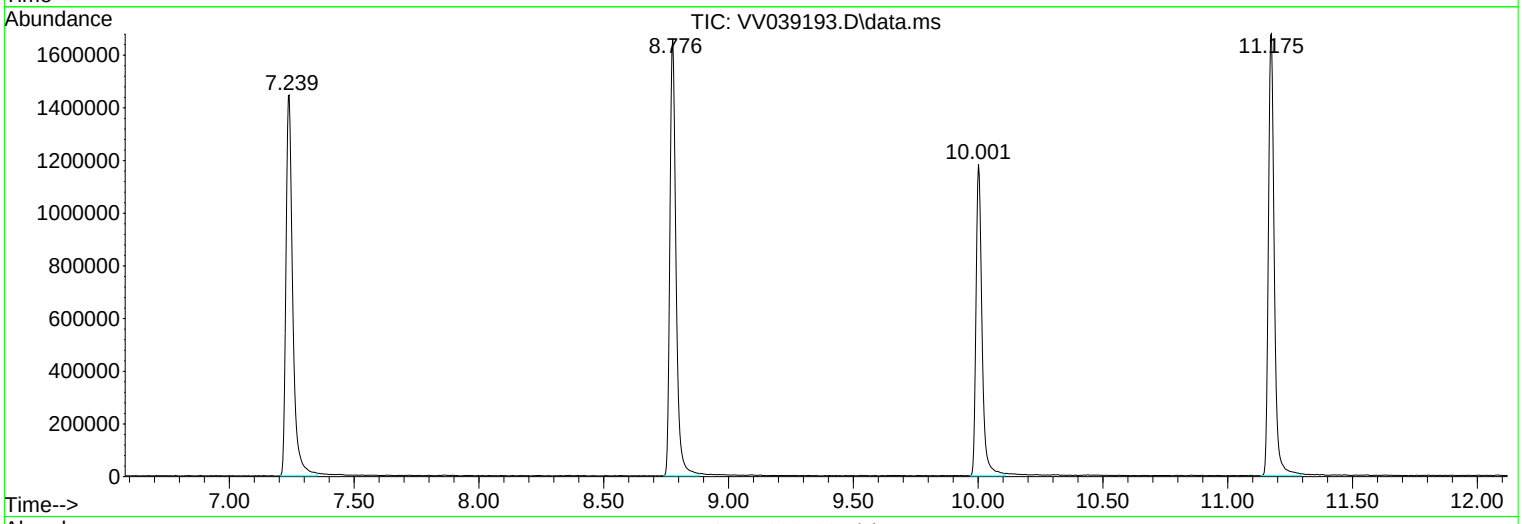
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

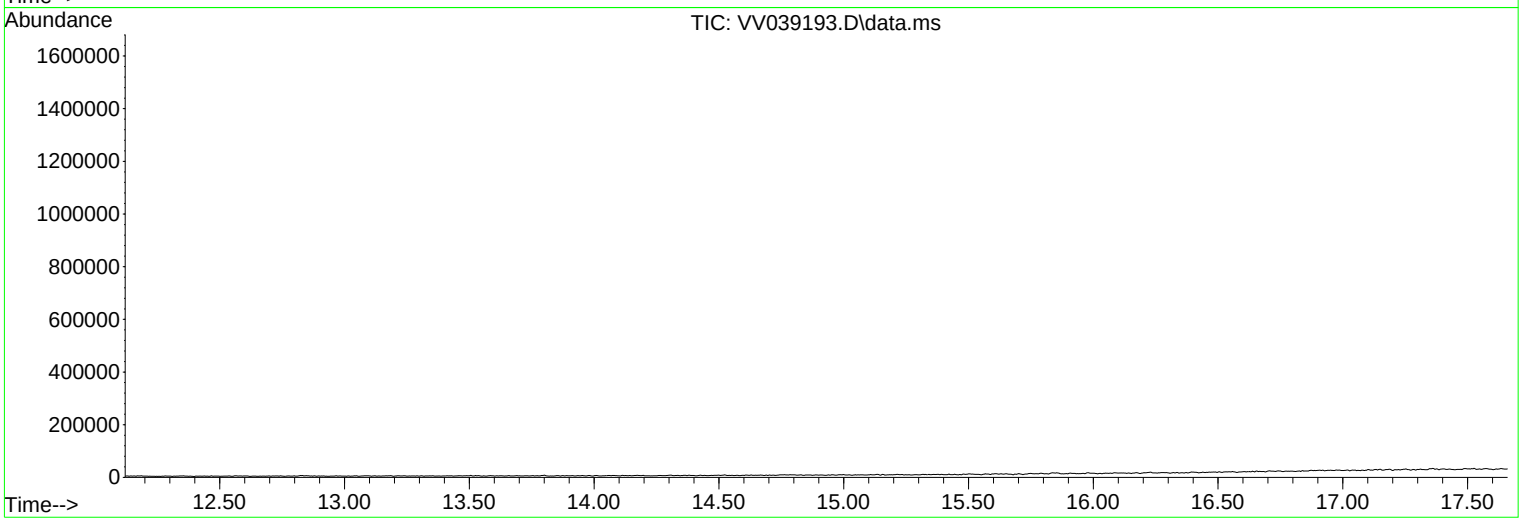
Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-22-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-23-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039194.D	1	09/25/25 20:02	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	14.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.63	J	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	2.60		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-23-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039194.D	1	09/25/25 20:02	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6		77 - 121	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	519000	4.603			
540-36-3	1,4-Difluorobenzene	935000	5.535			
3114-55-4	Chlorobenzene-d5	918000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	440000	11.172			
TENTATIVE IDENTIFIED COMPOUNDS						

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-23-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039194.D	1	09/25/25 20:02	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluo	5.50	J		1.92	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Quant Time: Sep 26 01:38:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

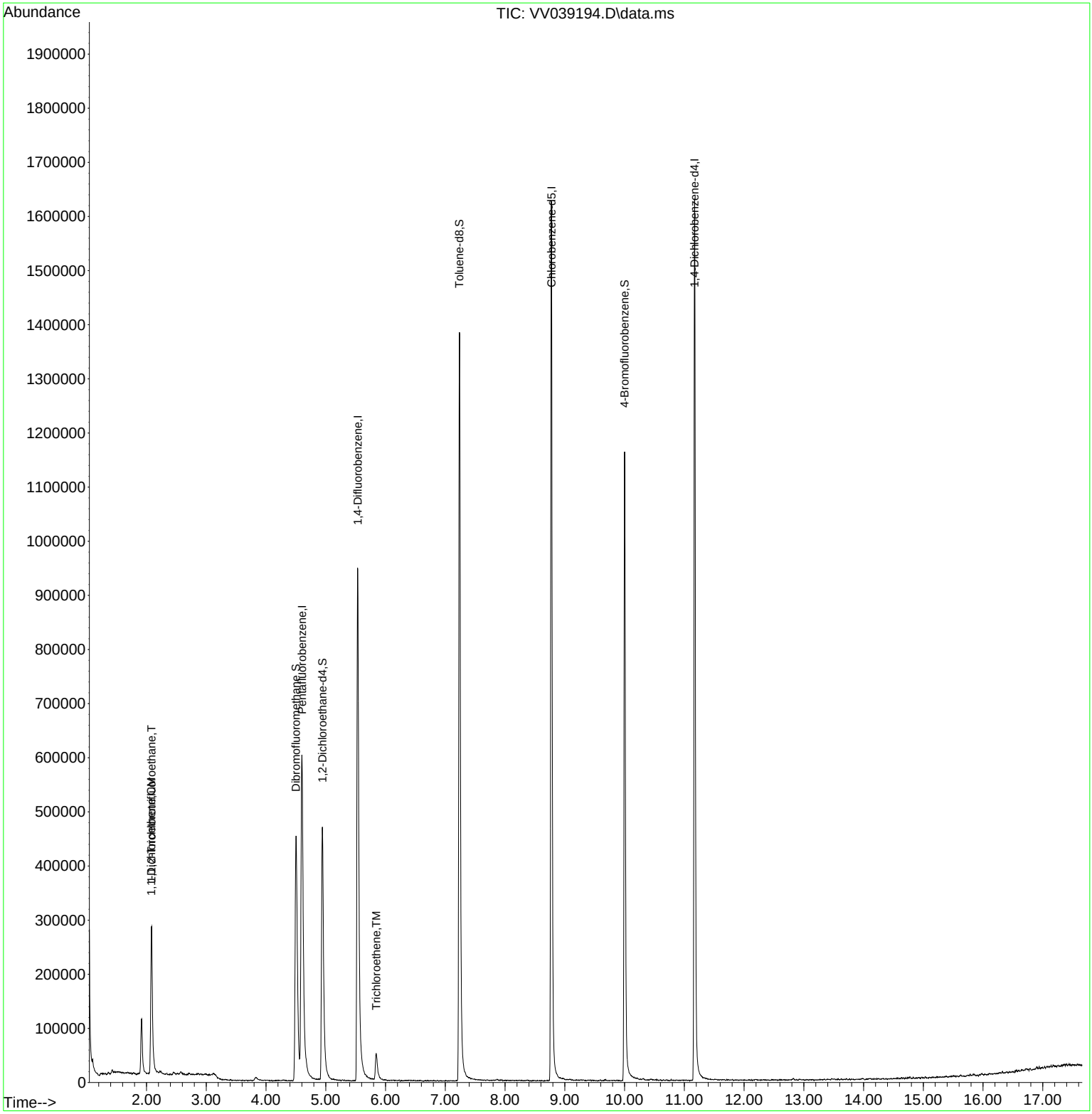
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	518728	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	934521	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	917520	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	439919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	416831	55.522	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 111.040%			
35) Dibromofluoromethane	4.503	113	376755	50.148	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 100.300%			
50) Toluene-d8	7.236	98	1025800	46.490	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.980%			
62) 4-Bromofluorobenzene	10.001	95	396383	43.637	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.280%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.082	101	116384	14.316	ug/l	98
12) 1,1-Dichloroethene	2.079	96	4959	0.634	ug/l #	80
44) Trichloroethene	5.847	130	22478	2.634	ug/l	97

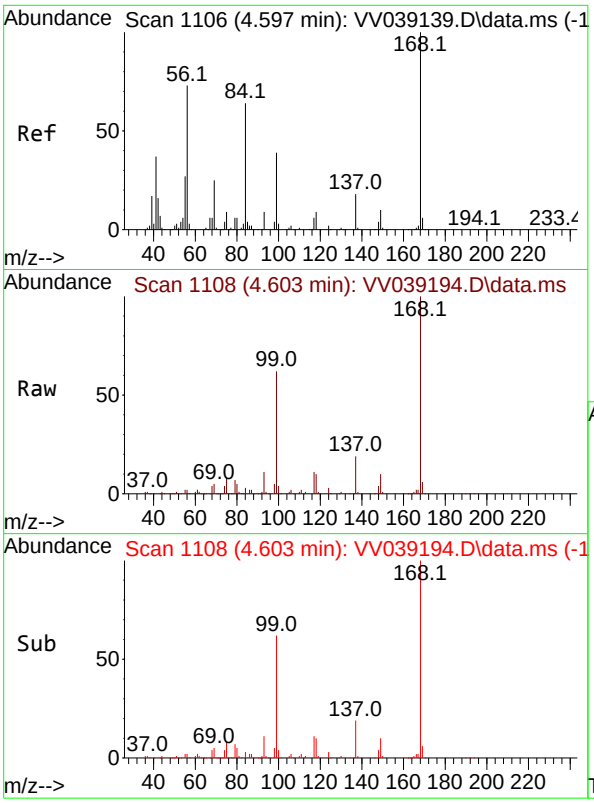
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Quant Time: Sep 26 01:38:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



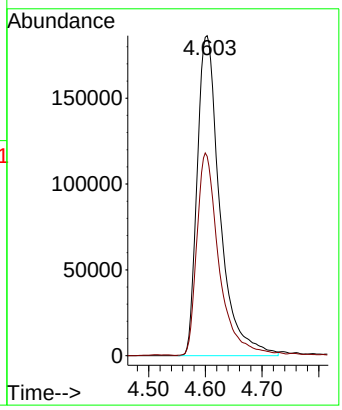


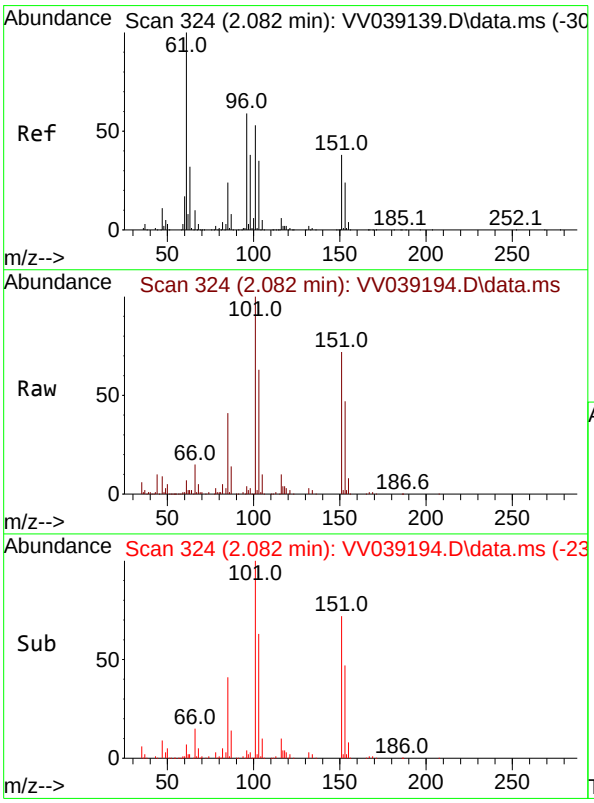
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Tgt Ion:168 Resp: 518728

Ion	Ratio	Lower	Upper
168	100		
99	62.2	49.6	74.4

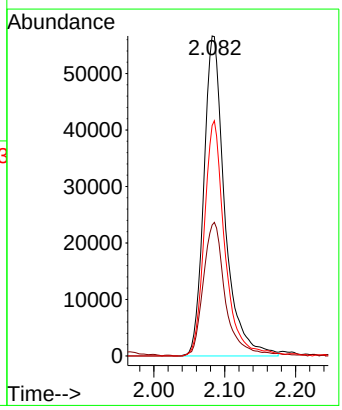


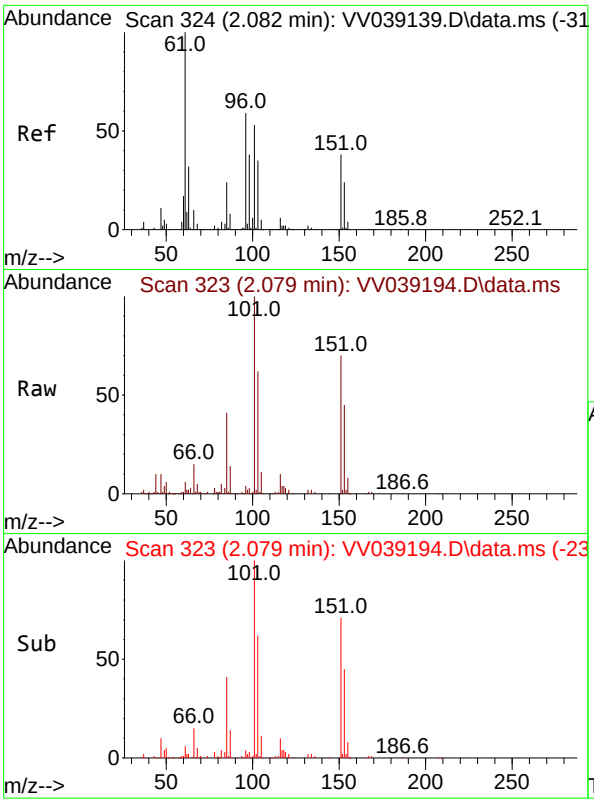


#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.316 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:101 Resp: 116384

Ion	Ratio	Lower	Upper
101	100		
85	44.0	36.2	54.2
151	72.0	56.3	84.5



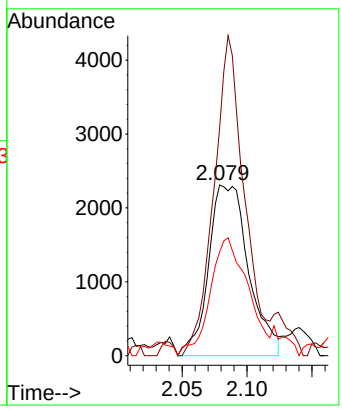


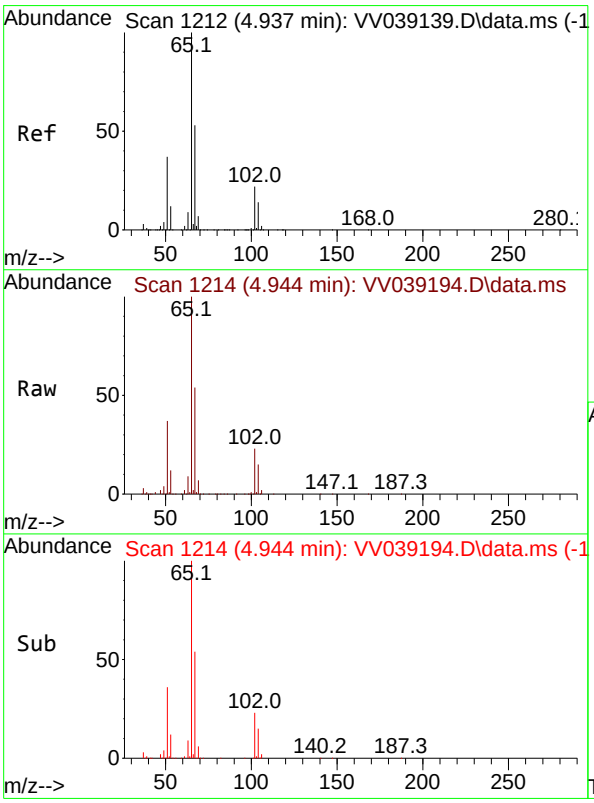
#12
1,1-Dichloroethene
Concen: 0.634 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Tgt Ion: 96 Resp: 4959

Ion	Ratio	Lower	Upper
96	100		
61	133.4	136.0	204.0#
98	60.7	51.0	76.6

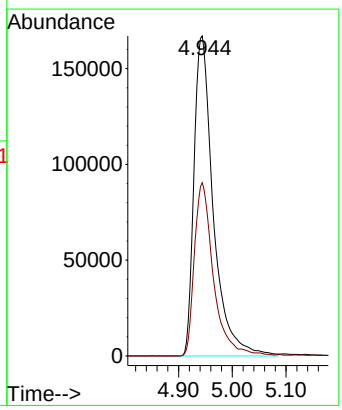


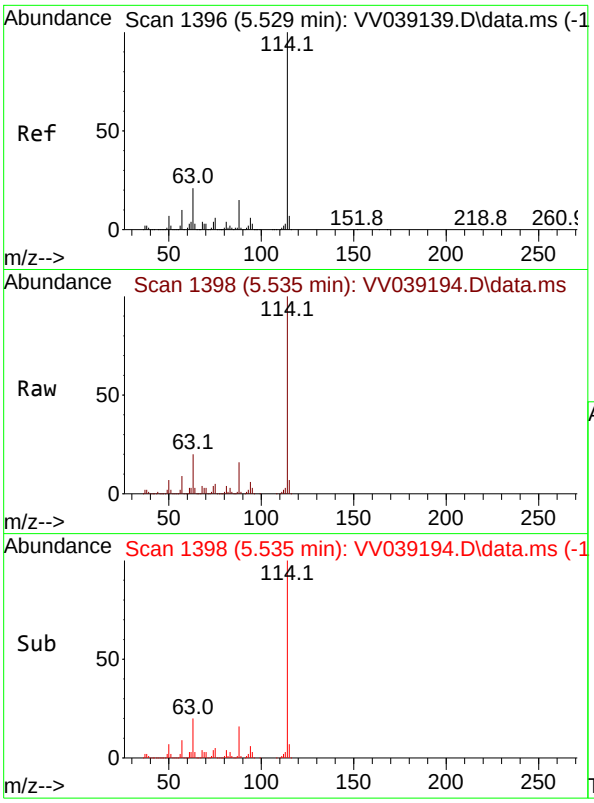


#33
1,2-Dichloroethane-d4
Concen: 55.522 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 65 Resp: 416831

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	107.0



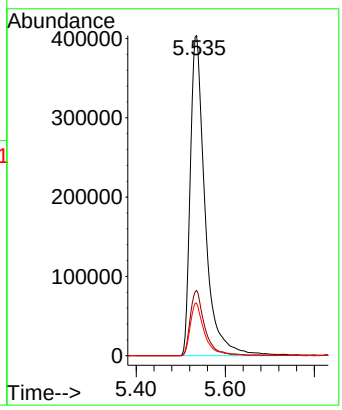


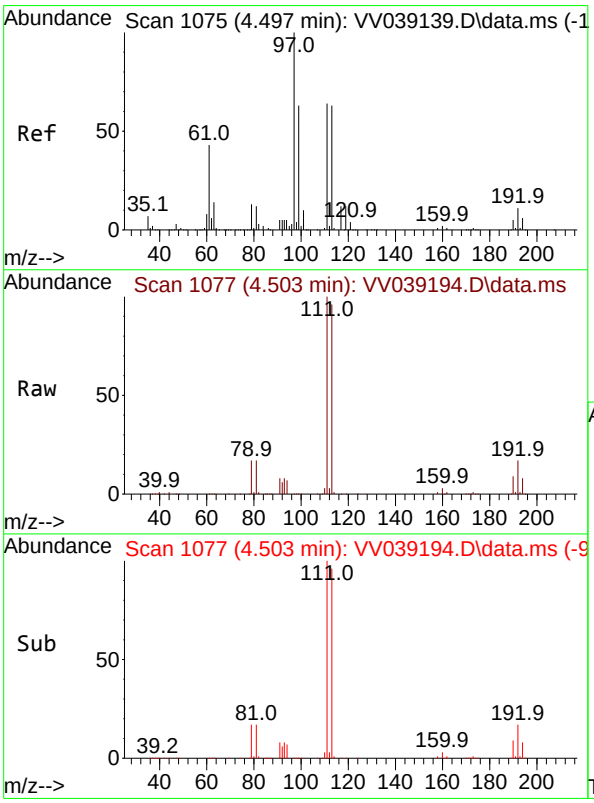
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Tgt Ion:114 Resp: 934521

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.6
88	16.4	0.0	30.8

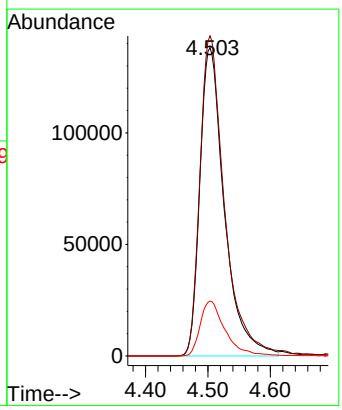


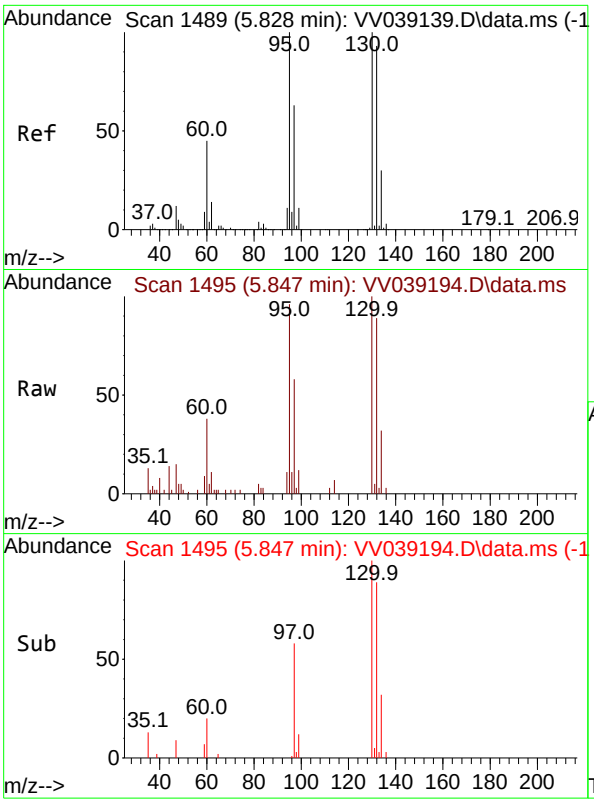


#35
Dibromofluoromethane
Concen: 50.148 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:113 Resp: 376755

Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.4	123.6
192	18.2	13.8	20.8



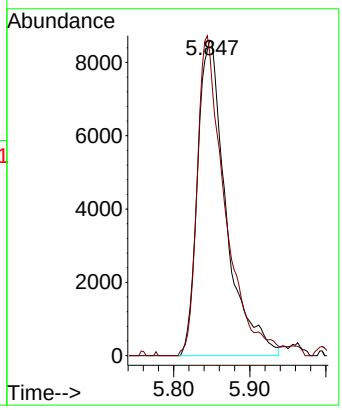


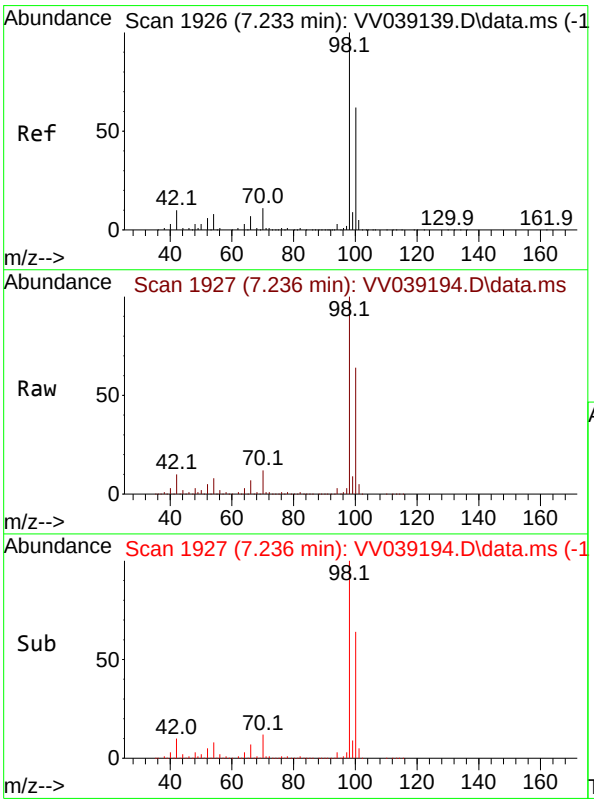
#44
Trichloroethene
Concen: 2.634 ug/l
RT: 5.847 min Scan# 14
Delta R.T. 0.019 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Tgt Ion:130 Resp: 22478

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	199.2

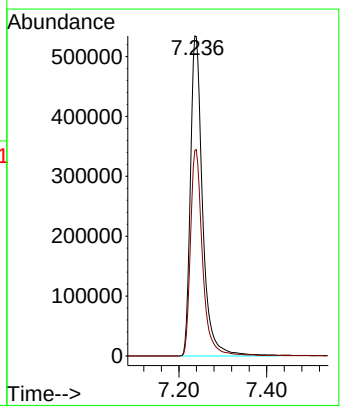


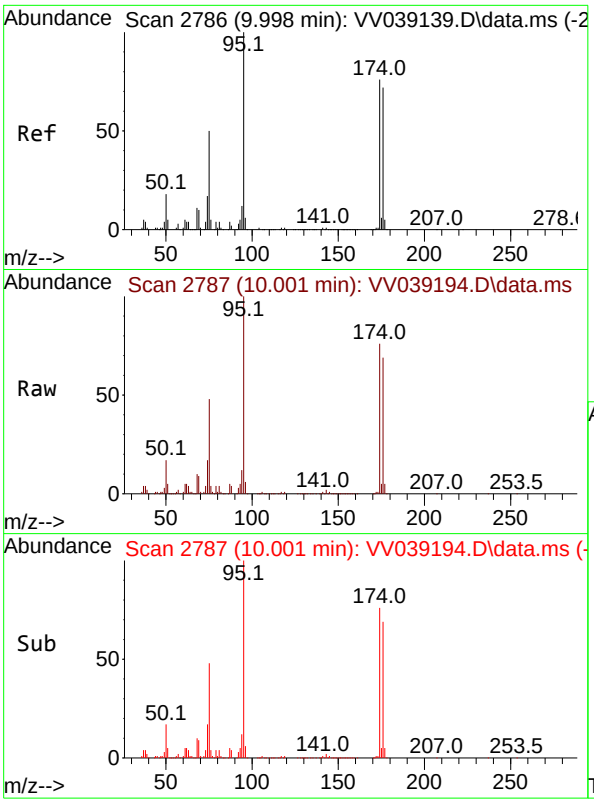


#50
Toluene-d8
Concen: 46.490 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 98 Resp: 1025800

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.2	78.2



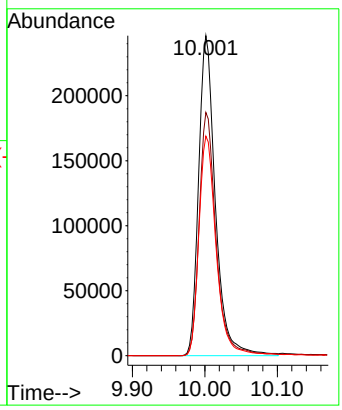


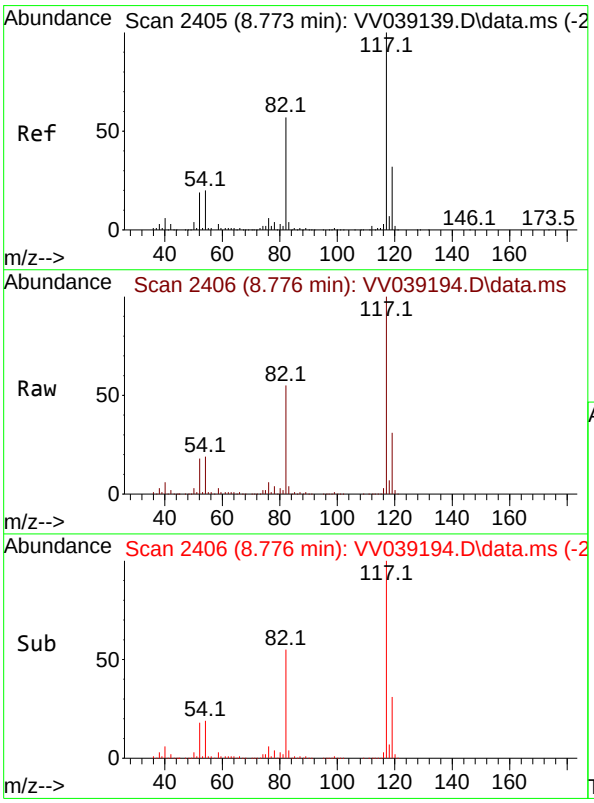
#62
4-Bromofluorobenzene
Concen: 43.637 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Tgt Ion: 95 Resp: 396383

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	150.4
176	70.8	0.0	144.2

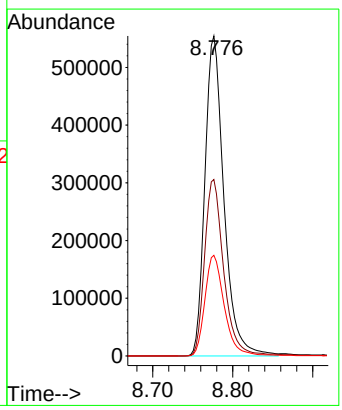


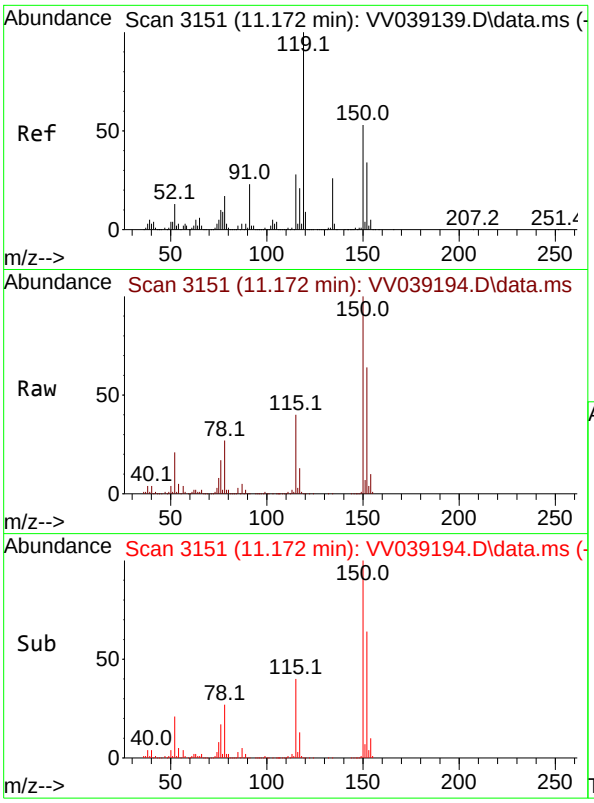


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:117 Resp: 917520

Ion	Ratio	Lower	Upper
117	100		
82	55.1	45.4	68.2
119	31.5	25.6	38.4



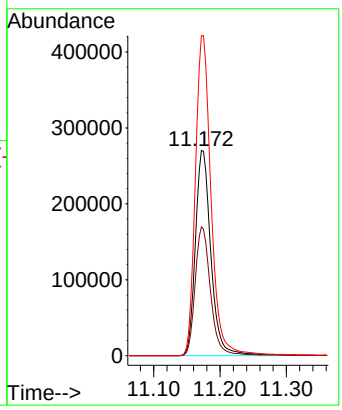


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Tgt Ion:152 Resp: 439919

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.8	134.4
150	158.3	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039194.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.918	263	273	288	rBV	99924	181098	6.54%	1.061%
2	2.085	313	325	344	rBV	271267	543694	19.62%	3.187%
3	4.503	1059	1077	1095	rBV	452790	1195004	43.12%	7.004%
4	4.600	1096	1107	1149	rVB	595399	1644737	59.35%	9.640%
5	4.944	1202	1214	1258	rBV	466224	1156971	41.75%	6.781%
6	5.532	1385	1397	1436	rBV	947708	2189425	79.01%	12.832%
7	5.844	1483	1494	1514	rBV3	47614	117713	4.25%	0.690%
8	7.236	1915	1927	1965	rBV	1383046	2666853	96.24%	15.630%
9	8.776	2395	2406	2446	rBV	1624795	2771158	100.00%	16.242%
10	10.001	2777	2787	2821	rBV	1161223	1917977	69.21%	11.241%
11	11.172	3140	3151	3183	rBV	1628752	2677265	96.61%	15.691%

Sum of corrected areas: 17061895

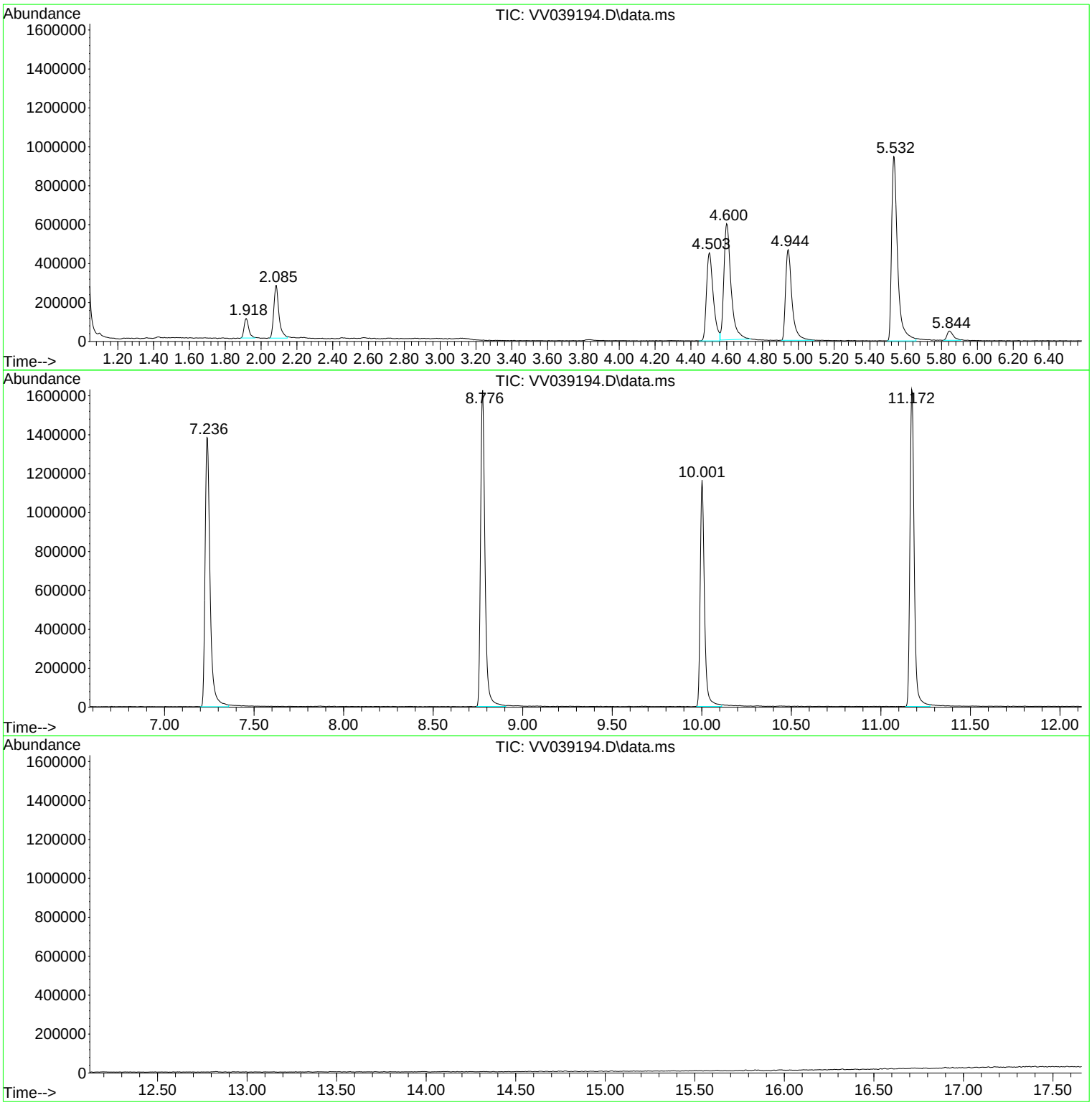
Sample Results: **VV039194.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

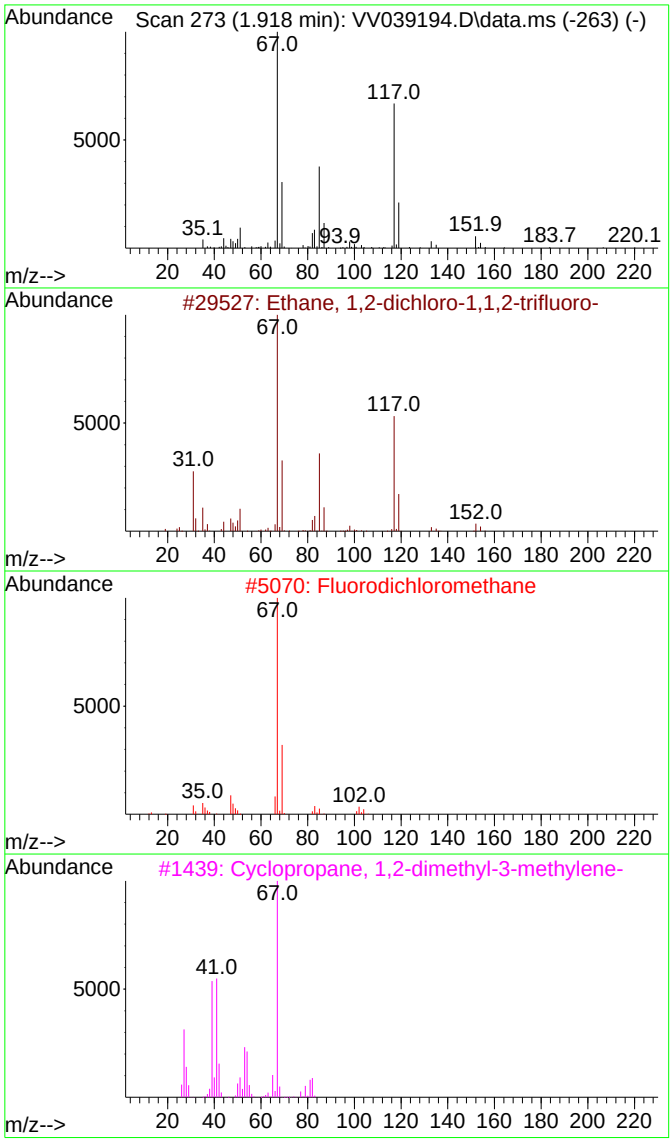
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

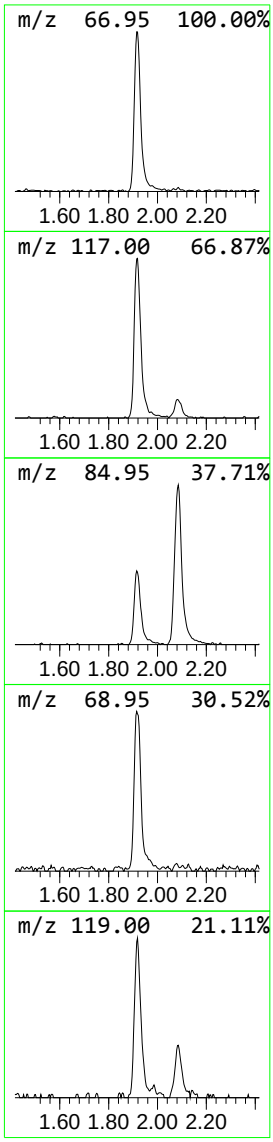
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.918	5.51 ug/l	181098	Pentafluorobenzene	4.603

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2-dichloro-1,1,2-trifl...	152	C2HCl2F3	000354-23-4	90
2	Fluorodichloromethane	102	CHCl2F	000075-43-4	32
3	Cyclopropane, 1,2-dimethyl-3-met...	82	C6H10	062338-02-7	25
4	1-Bromo-2-chloro-1,1,2-trifluoro...	196	C2HBrClF3	000354-06-3	25
5	1,4-Pentadiene, 3-methyl-	82	C6H10	001115-08-8	9





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-23-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethane, 1,2-dic...	1.918	5.5	ug/l	181098	1	4.603	1644740	50.0

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-24-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039195.D	1	09/25/25 20:25	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10		0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.35	J	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	1.00		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-24-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039195.D	1	09/25/25 20:25	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.34	J	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.6		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	46.2		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	515000	4.6			
540-36-3	1,4-Difluorobenzene	929000	5.535			
3114-55-4	Chlorobenzene-d5	926000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	443000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-24-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039195.D	1	09/25/25 20:25	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Quant Time: Sep 26 01:39:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

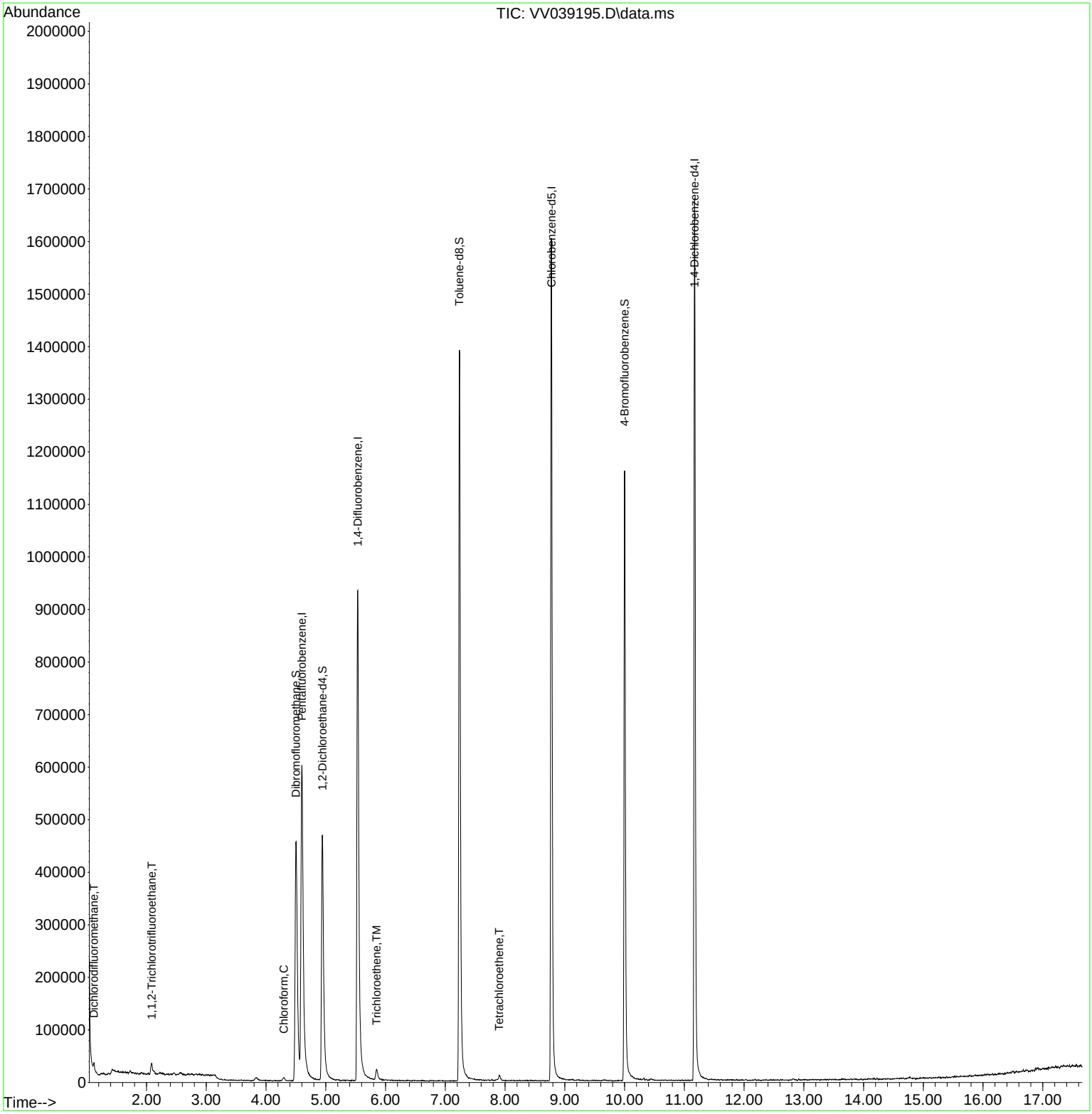
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	515327	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	928629	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	925762	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	442595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	414441	55.568	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 111.140%			
35) Dibromofluoromethane	4.503	113	384300	51.477	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 102.960%			
50) Toluene-d8	7.236	98	1012096	46.160	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.320%			
62) 4-Bromofluorobenzene	10.002	95	401201	44.448	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	9372	1.149	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.089	101	8698	1.077	ug/l	99
30) Chloroform	4.298	83	5926	0.349	ug/l #	83
44) Trichloroethene	5.851	130	8633	1.018	ug/l	92
64) Tetrachloroethene	7.902	164	2650	0.342	ug/l #	79

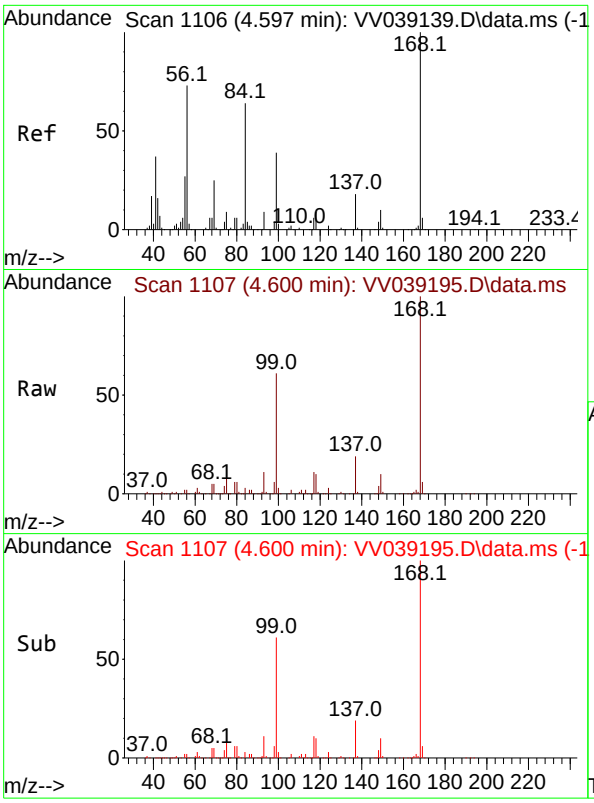
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Quant Time: Sep 26 01:39:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



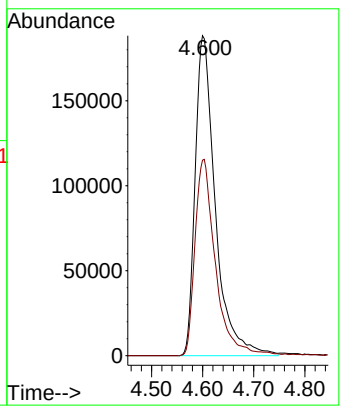


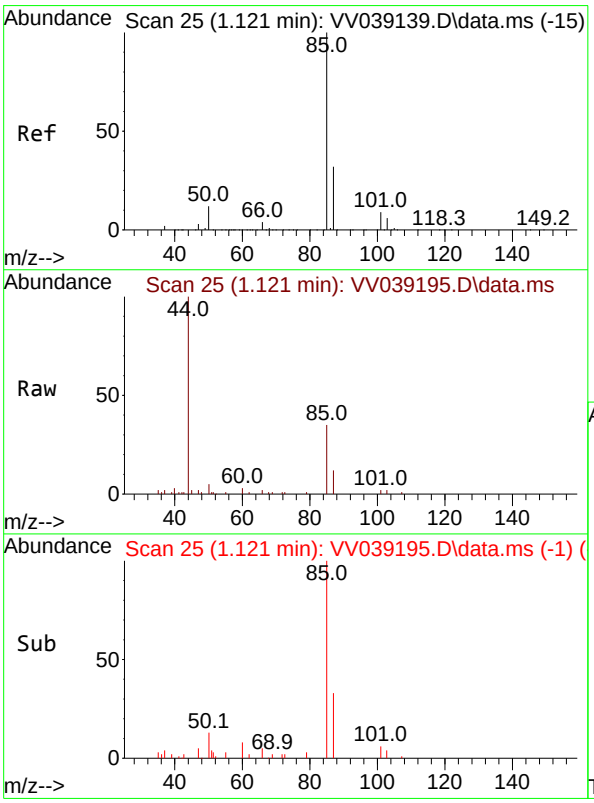
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Tgt Ion:168 Resp: 515327

Ion	Ratio	Lower	Upper
168	100		
99	61.1	49.6	74.4

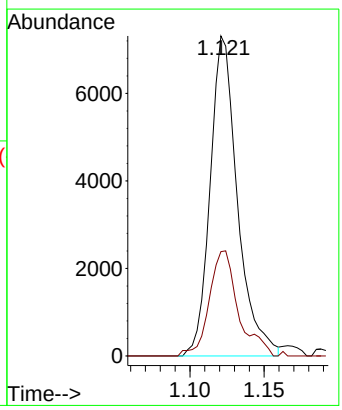


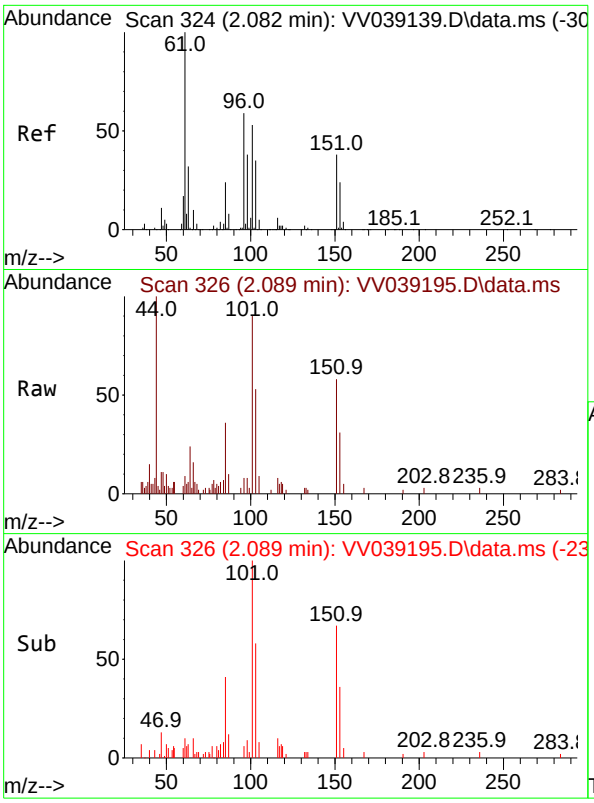


#2
Dichlorodifluoromethane
Concen: 1.149 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 85 Resp: 9372

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.0	47.9



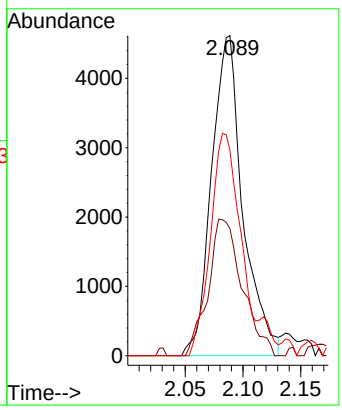


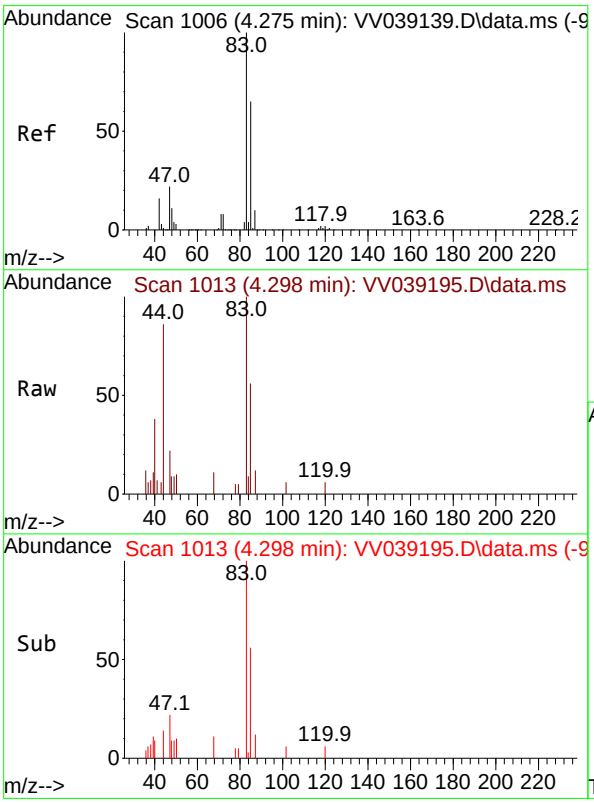
#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.077 ug/l
RT: 2.089 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Tgt Ion:101 Resp: 8698

Ion	Ratio	Lower	Upper
101	100		
85	46.4	36.2	54.2
151	70.7	56.3	84.5

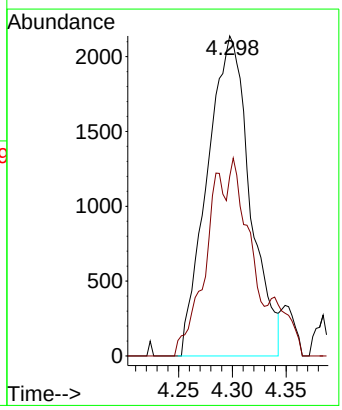


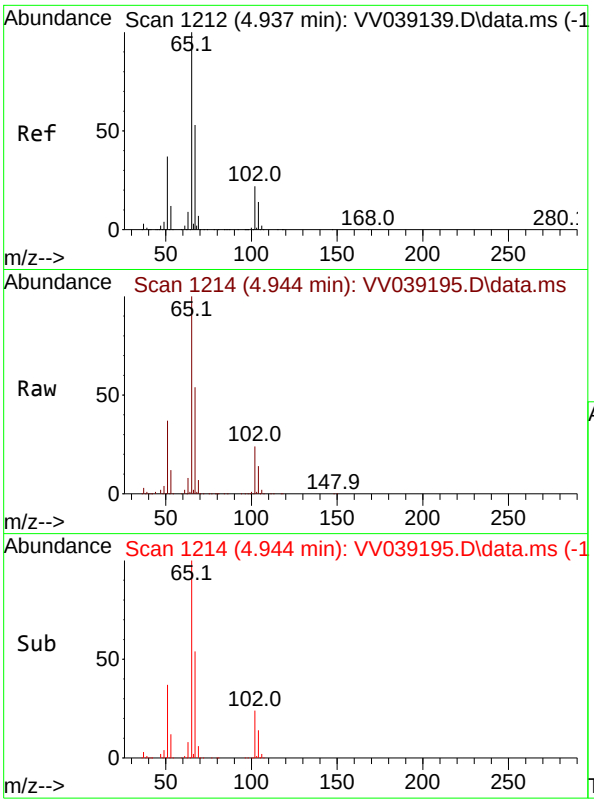


#30
Chloroform
Concen: 0.349 ug/l
RT: 4.298 min Scan# 1013
Delta R.T. 0.023 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 83 Resp: 5926

Ion	Ratio	Lower	Upper
83	100		
85	51.3	52.1	78.1#



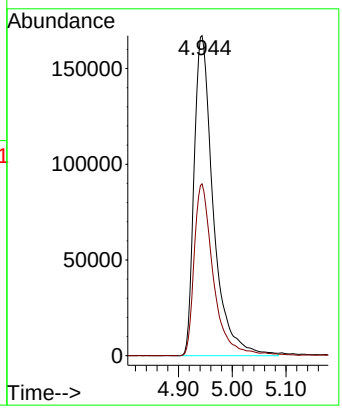


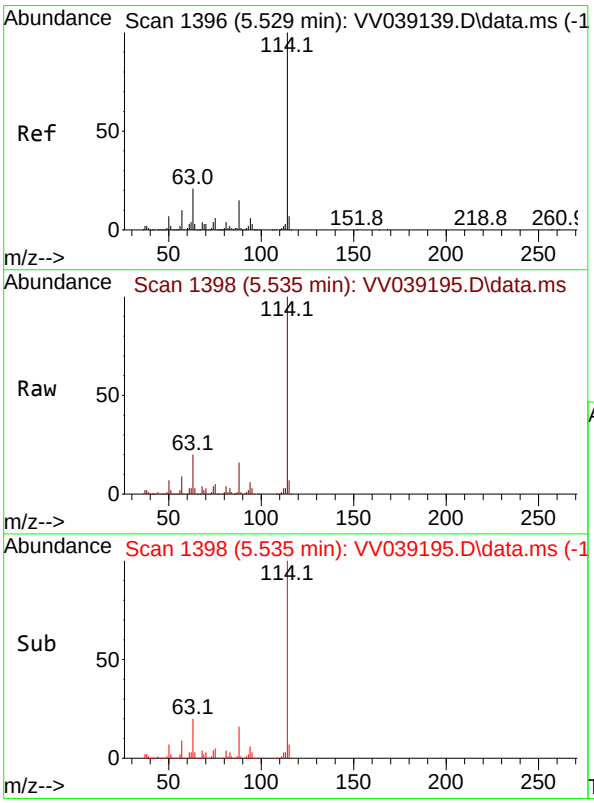
#33
1,2-Dichloroethane-d4
Concen: 55.568 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Tgt Ion: 65 Resp: 414441

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	107.0

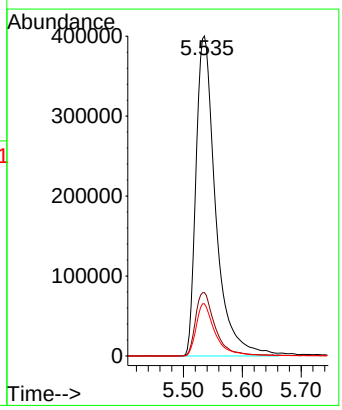


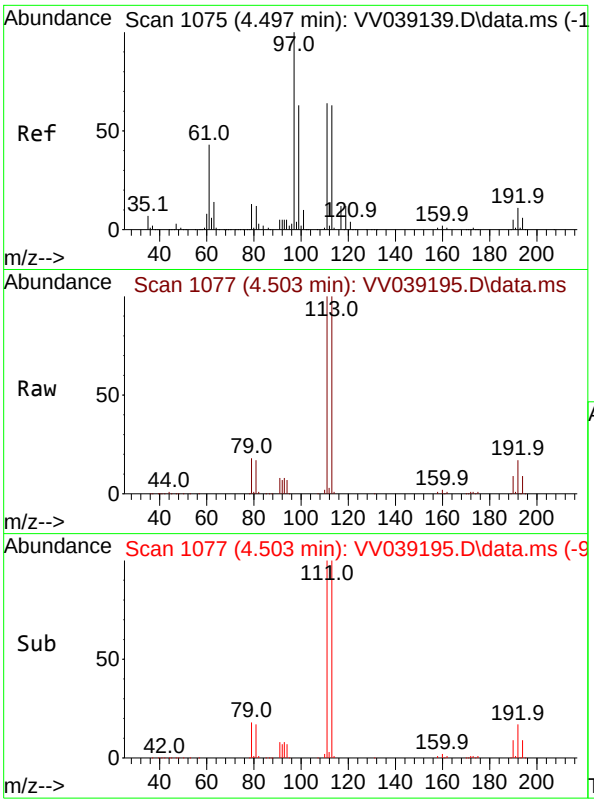


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:114 Resp: 928629

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	42.6
88	16.3	0.0	30.8



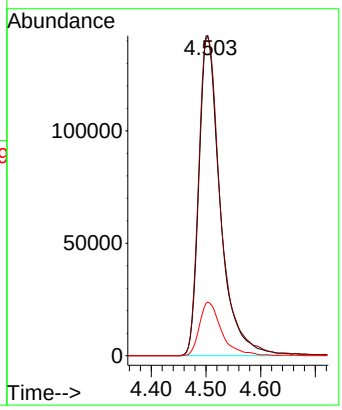


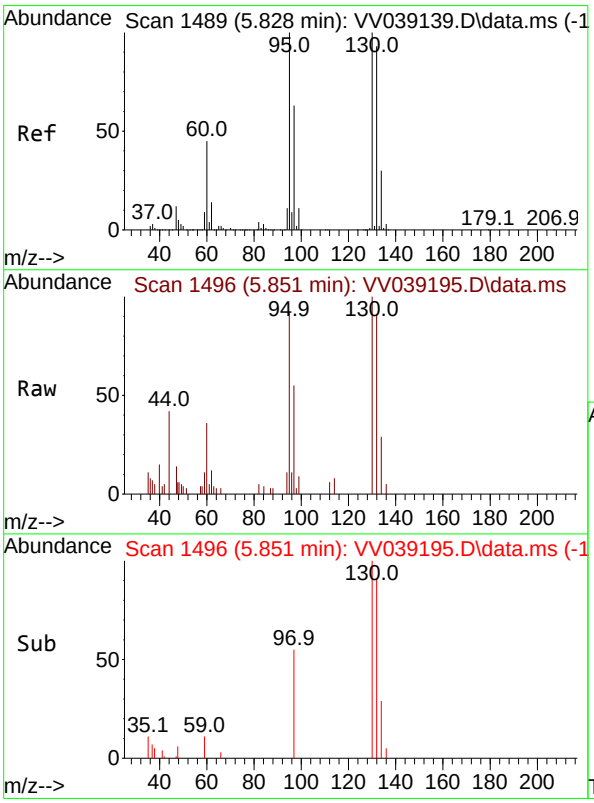
#35
Dibromofluoromethane
Concen: 51.477 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Tgt Ion:113 Resp: 384300

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	17.3	13.8	20.8

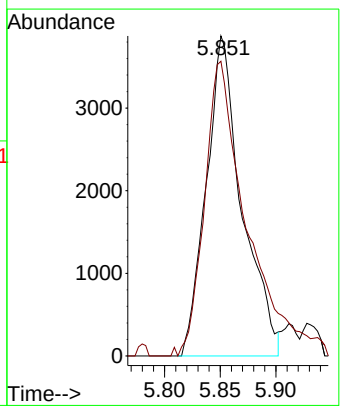


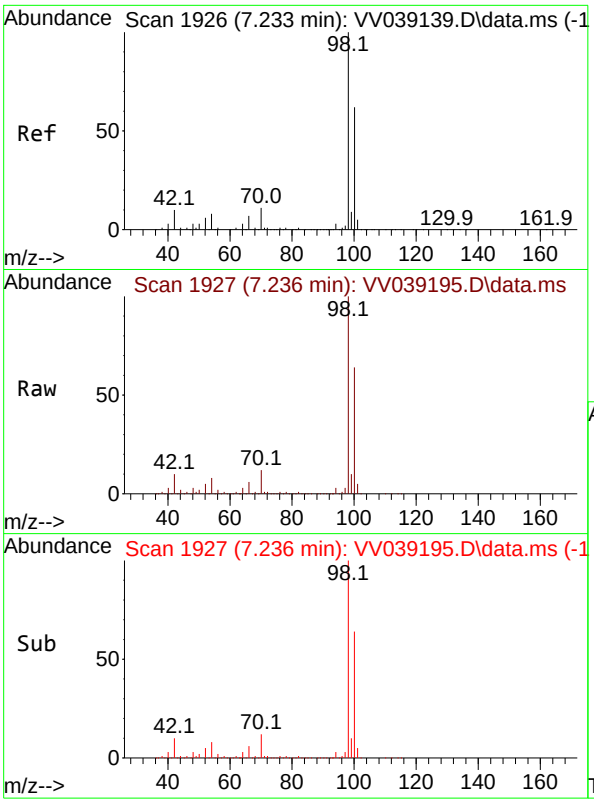


#44
Trichloroethene
Concen: 1.018 ug/l
RT: 5.851 min Scan# 1496
Delta R.T. 0.023 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:130 Resp: 8633

Ion	Ratio	Lower	Upper
130	100		
95	92.1	0.0	199.2



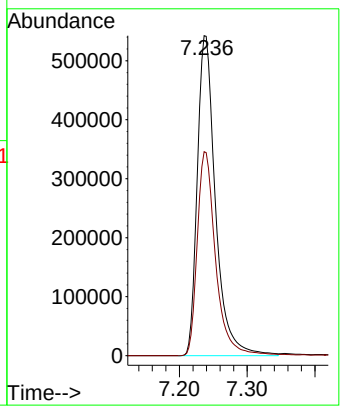


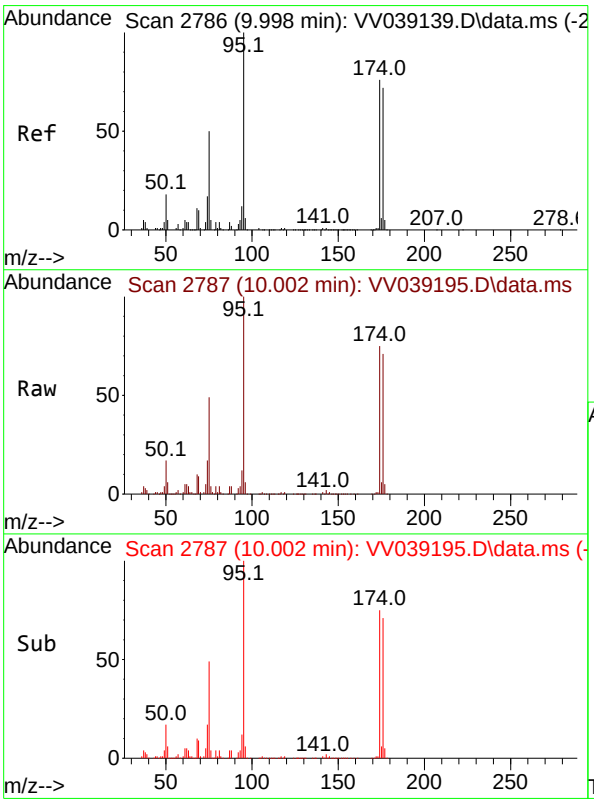
#50
Toluene-d8
Concen: 46.160 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Tgt Ion: 98 Resp: 1012096

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.2

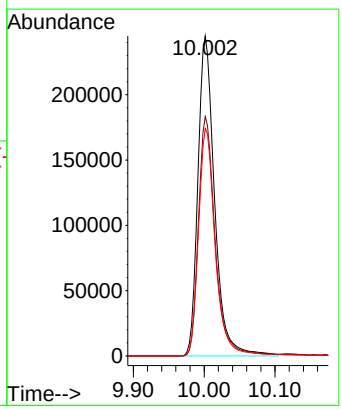


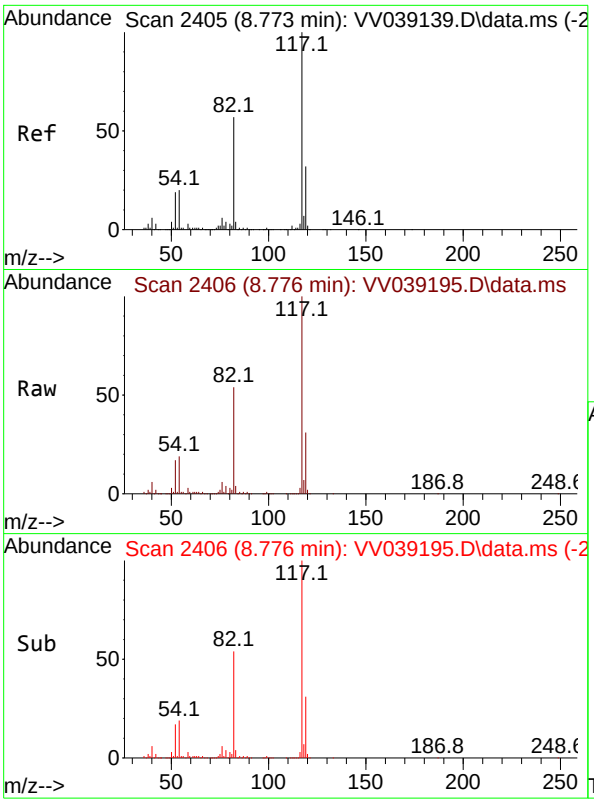


#62
4-Bromofluorobenzene
Concen: 44.448 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 95 Resp: 401201

Ion	Ratio	Lower	Upper
95	100		
174	75.4	0.0	150.4
176	71.2	0.0	144.2



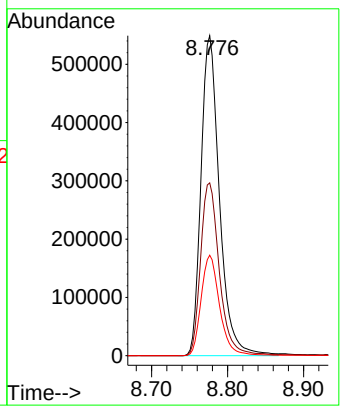


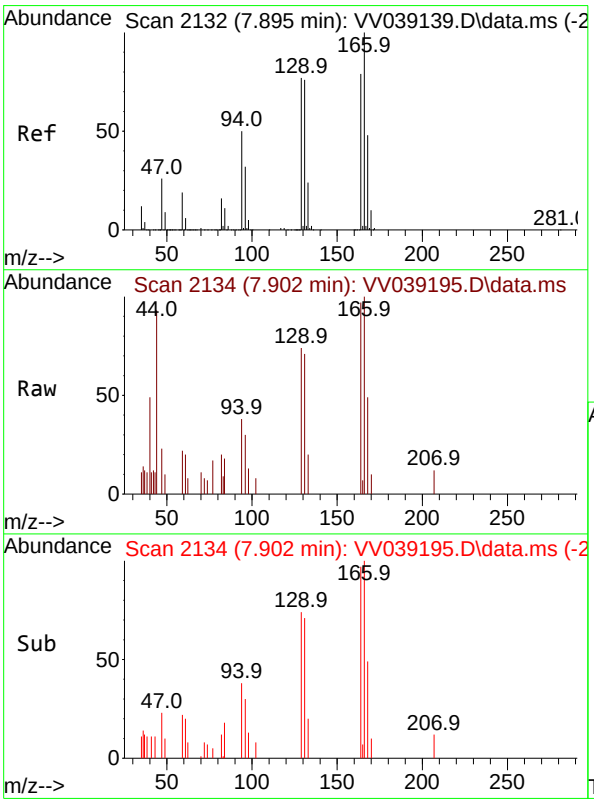
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Tgt Ion:117 Resp: 925762

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.4	68.2
119	31.4	25.6	38.4

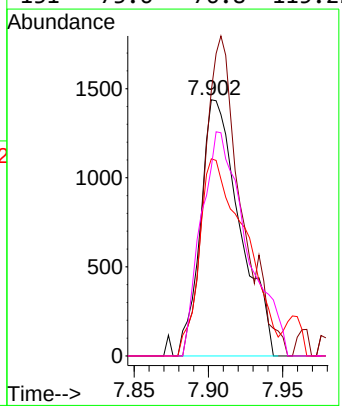


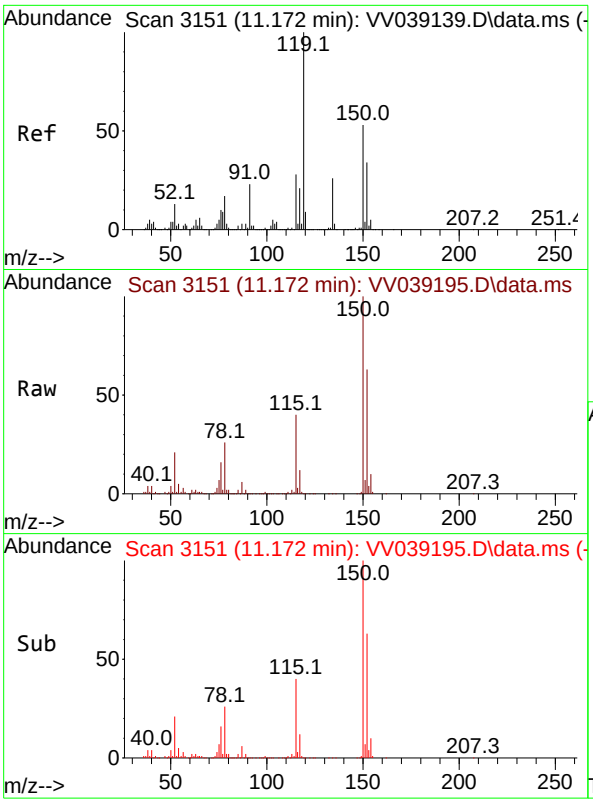


#64
Tetrachloroethene
Concen: 0.342 ug/l
RT: 7.902 min Scan# 2134
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:164 Resp: 2650

Ion	Ratio	Lower	Upper
164	100		
166	103.5	101.6	152.4
129	76.9	78.5	117.7#
131	73.6	76.8	115.2#



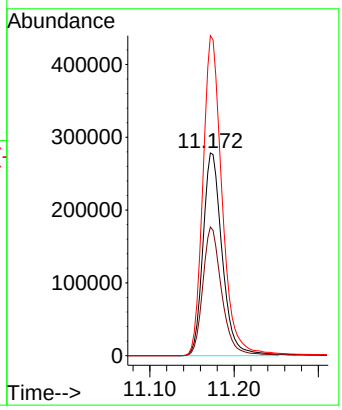


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Tgt Ion:152 Resp: 442595

Ion	Ratio	Lower	Upper
152	100		
115	62.3	44.8	134.4
150	158.9	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039195.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.085	315	325	335	rBV4	21295	43944	1.59%	0.270%
2	4.503	1061	1077	1095	rBV	454943	1196848	43.32%	7.357%
3	4.600	1096	1107	1141	rVB	589999	1595403	57.75%	9.807%
4	4.944	1200	1214	1248	rBV	465775	1157558	41.90%	7.115%
5	5.535	1385	1398	1437	rBV	932081	2186010	79.12%	13.437%
6	5.851	1486	1496	1508	rBV7	19114	42561	1.54%	0.262%
7	7.236	1915	1927	1962	rBV	1390762	2645954	95.77%	16.265%
8	8.776	2394	2406	2440	rBV	1603308	2762747	100.00%	16.982%
9	10.002	2774	2787	2825	rBV	1160654	1935358	70.05%	11.897%
10	11.172	3140	3151	3187	rBV	1677583	2701846	97.80%	16.608%

Sum of corrected areas: 16268229

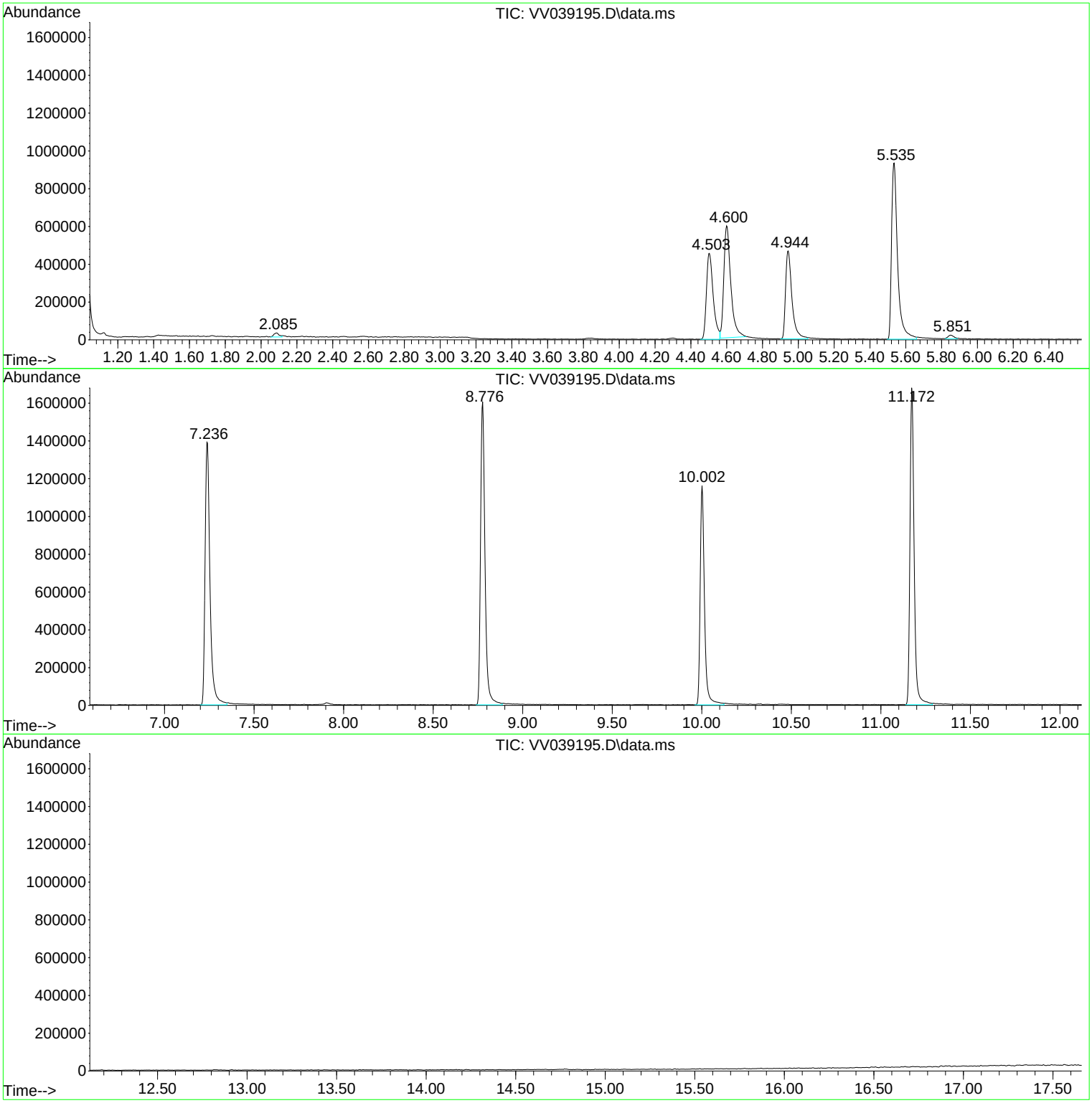
Sample Results: **VV039195.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-24-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-26-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039204.D	1	09/26/25 11:58	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.20		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-26-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039204.D	1	09/26/25 11:58	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.0		74 - 125	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	47.0		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.9		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	487000	4.603			
540-36-3	1,4-Difluorobenzene	867000	5.535			
3114-55-4	Chlorobenzene-d5	873000	8.777			
3855-82-1	1,4-Dichlorobenzene-d4	421000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-26-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039204.D	1	09/26/25 11:58	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Quant Time: Sep 27 02:53:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

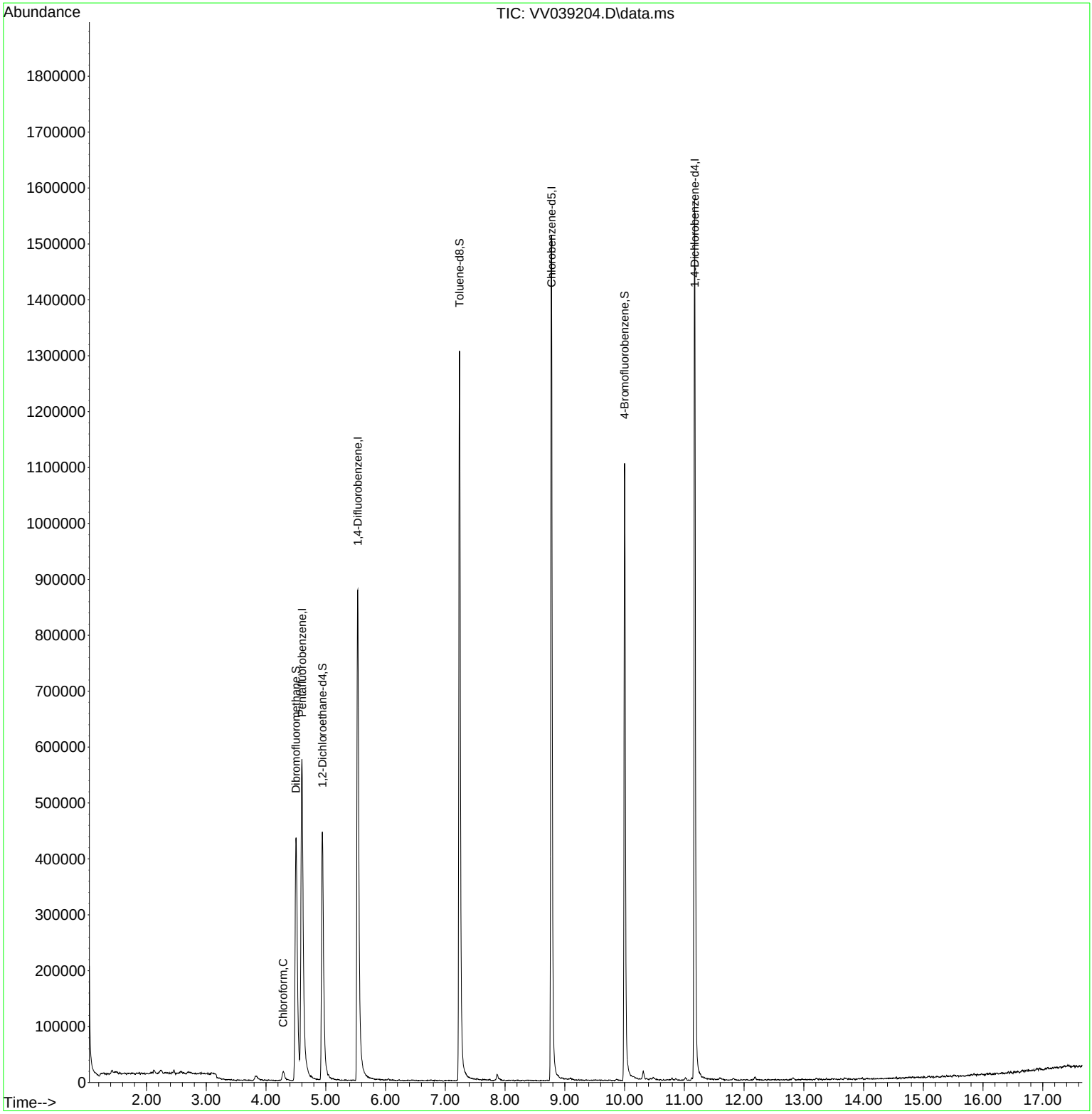
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	486629	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	867427	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.777	117	873266	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	420754	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	394452	56.006	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 112.020%			
35) Dibromofluoromethane	4.503	113	367761	52.738	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 105.480%			
50) Toluene-d8	7.240	98	962872	47.013	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.020%			
62) 4-Bromofluorobenzene	10.002	95	378432	44.883	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.760%			
Target Compounds						Qvalue
30) Chloroform	4.288	83	18760	1.172	ug/l	96

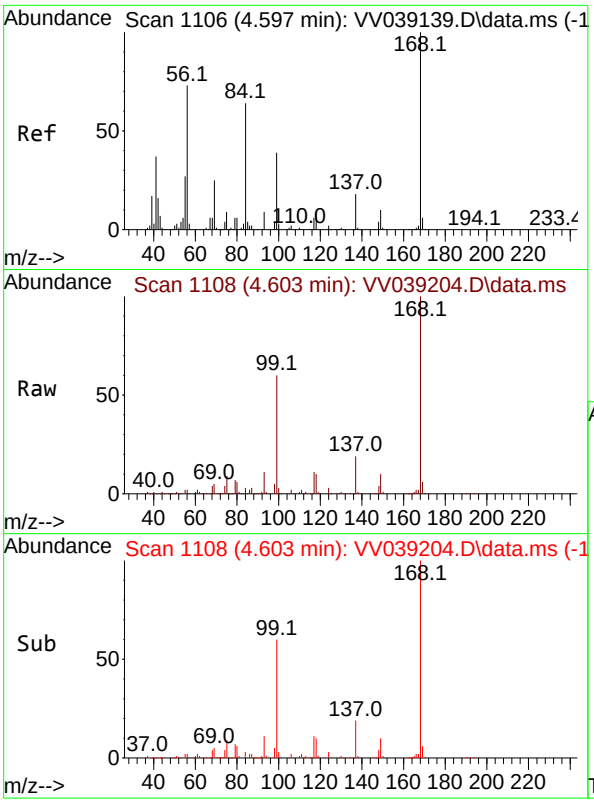
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Quant Time: Sep 27 02:53:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



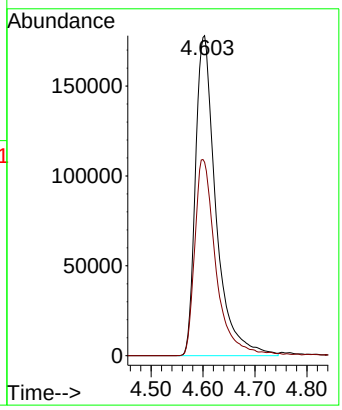


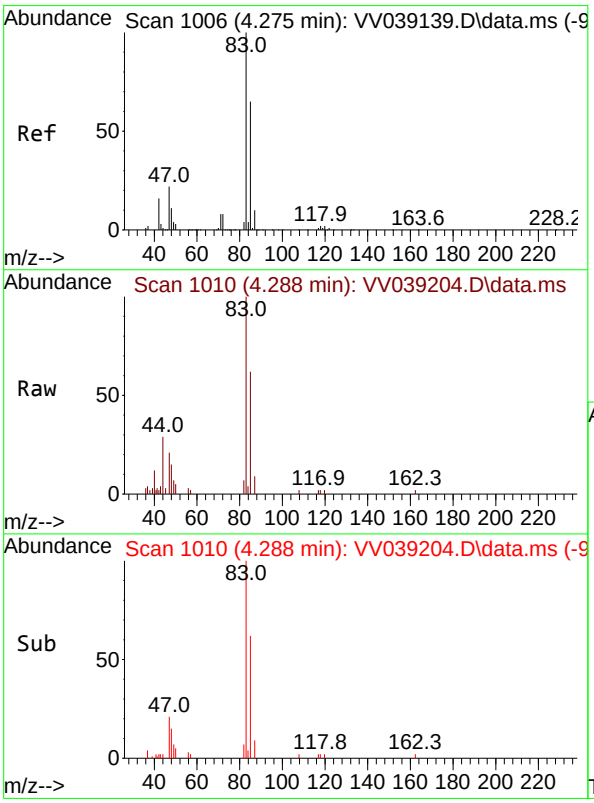
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Tgt Ion:168 Resp: 486629

Ion	Ratio	Lower	Upper
168	100		
99	60.4	49.6	74.4

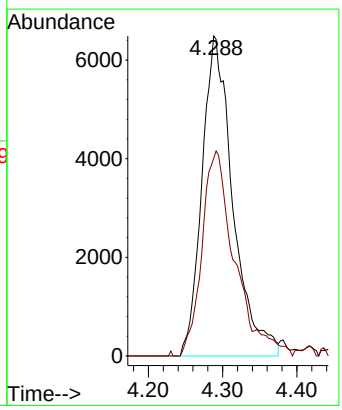


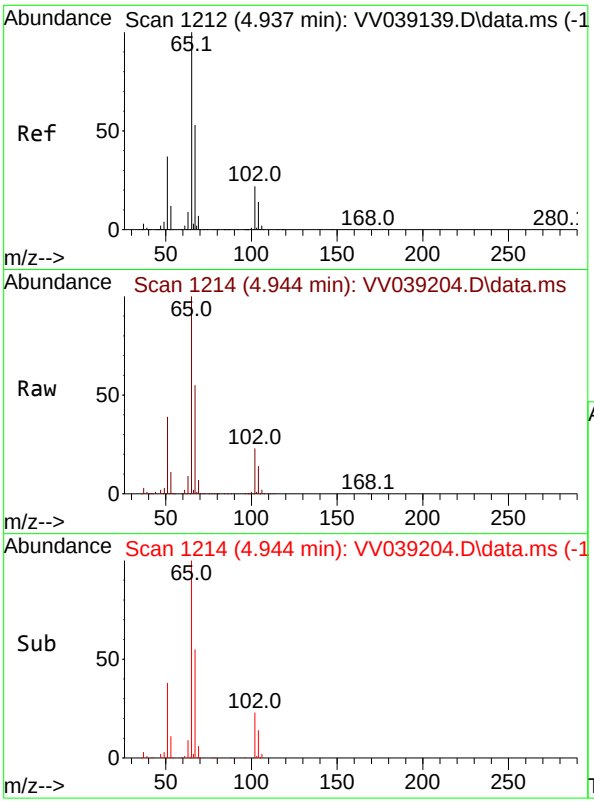


#30
Chloroform
Concen: 1.172 ug/l
RT: 4.288 min Scan# 1010
Delta R.T. 0.013 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion: 83 Resp: 18760

Ion	Ratio	Lower	Upper
83	100		
85	61.8	52.1	78.1



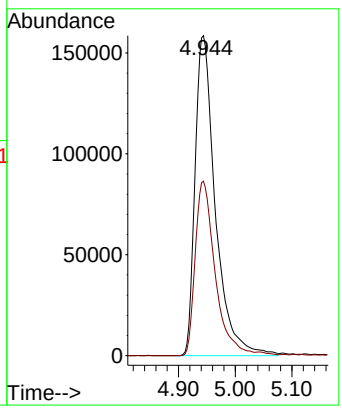


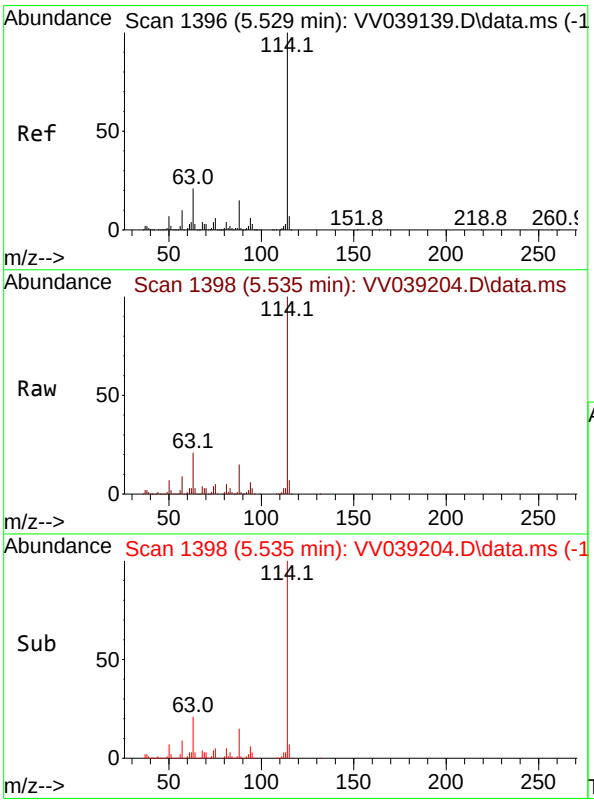
#33
1,2-Dichloroethane-d4
Concen: 56.006 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.007 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Tgt Ion: 65 Resp: 394452

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	107.0

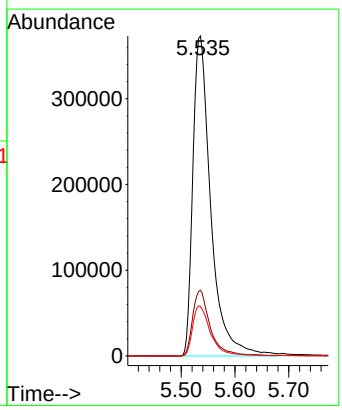


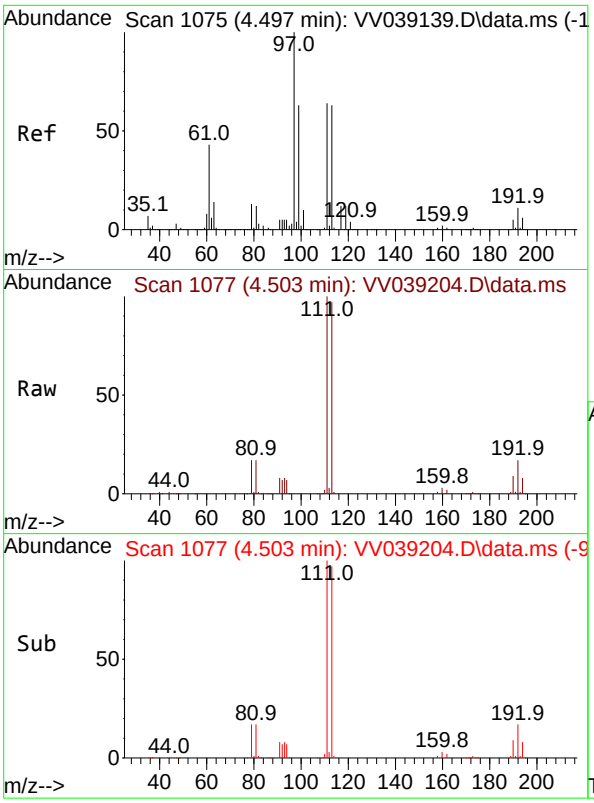


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion:114 Resp: 867427

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	42.6
88	15.4	0.0	30.8



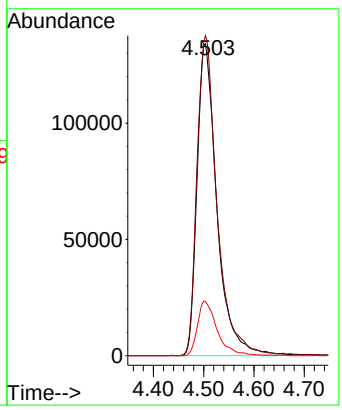


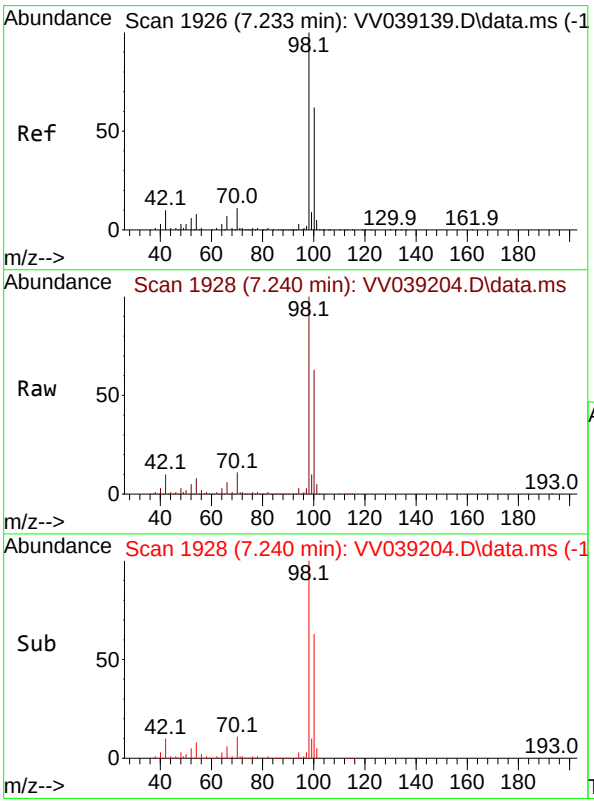
#35
Dibromofluoromethane
Concen: 52.738 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.007 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Tgt Ion:113 Resp: 367761

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	17.3	13.8	20.8

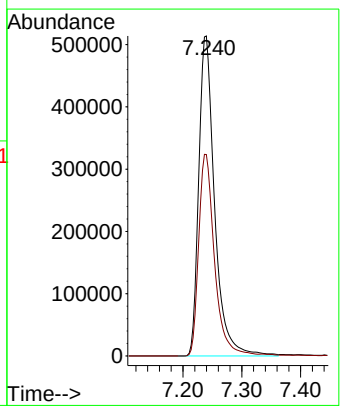


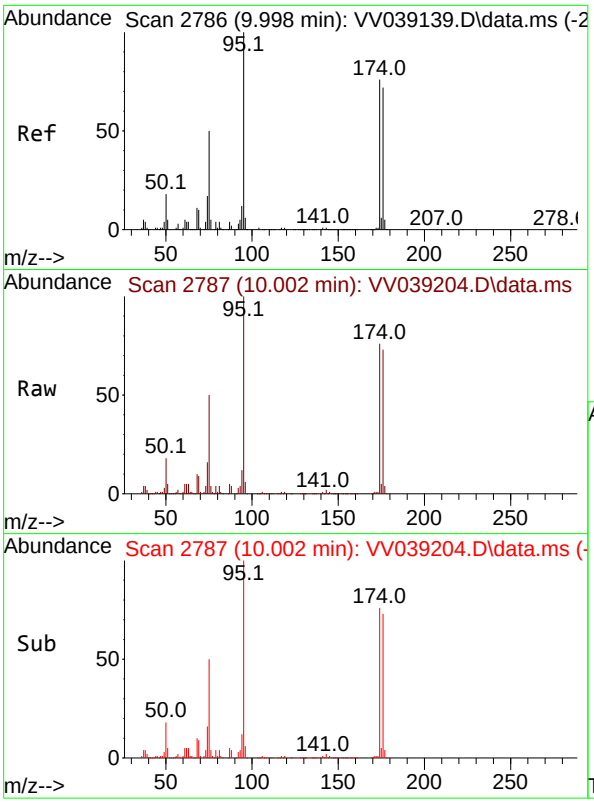


#50
Toluene-d8
Concen: 47.013 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.007 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion: 98 Resp: 962872

Ion	Ratio	Lower	Upper
98	100		
100	62.7	52.2	78.2



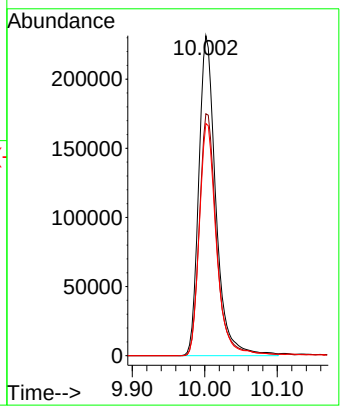


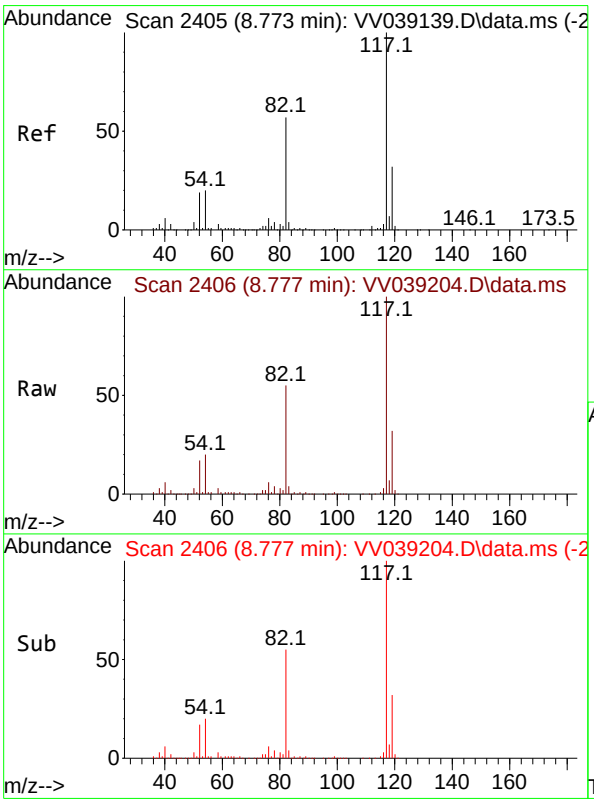
#62
4-Bromofluorobenzene
Concen: 44.883 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Tgt Ion: 95 Resp: 378432

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	150.4
176	73.0	0.0	144.2

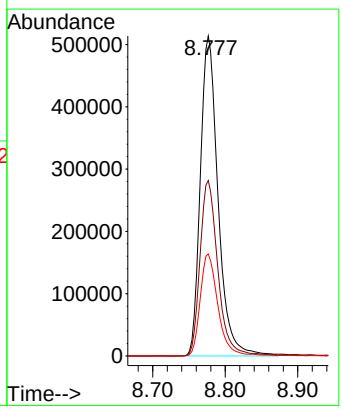


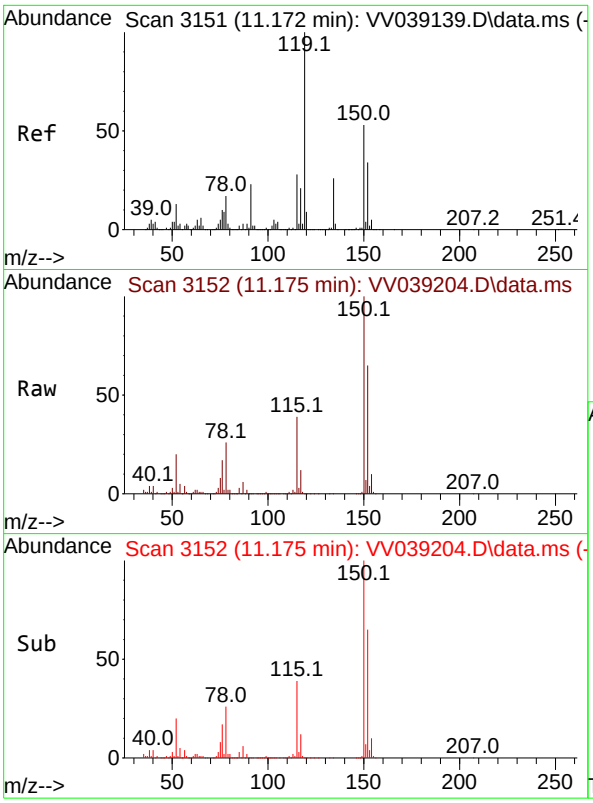


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 2406
Delta R.T. 0.004 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion:117 Resp: 873266

Ion	Ratio	Lower	Upper
117	100		
82	54.8	45.4	68.2
119	31.9	25.6	38.4



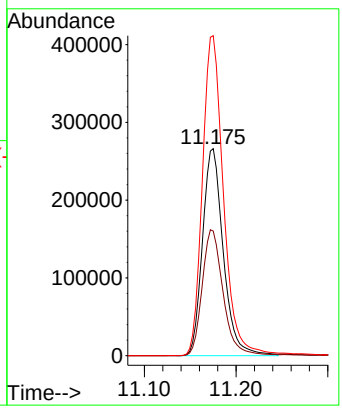


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Tgt Ion:152 Resp: 420754

Ion	Ratio	Lower	Upper
152	100		
115	61.0	44.8	134.4
150	157.7	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039204.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.288	1000	1010	1022	rBV2	15195	36668	1.41%	0.238%
2	4.503	1061	1077	1095	rBV	434597	1152892	44.27%	7.479%
3	4.600	1095	1107	1151	rVB2	569740	1594470	61.22%	10.344%
4	4.944	1202	1214	1242	rBV2	443064	1100181	42.24%	7.137%
5	5.535	1386	1398	1441	rBV	877375	2071943	79.55%	13.441%
6	7.236	1916	1927	1957	rBV	1304355	2478947	95.18%	16.082%
7	8.777	2395	2406	2437	rBV	1511979	2604416	100.00%	16.896%
8	10.002	2775	2787	2818	rBV	1104751	1836050	70.50%	11.911%
9	11.175	3140	3152	3175	rBV	1574236	2539264	97.50%	16.473%

Sum of corrected areas: 15414831

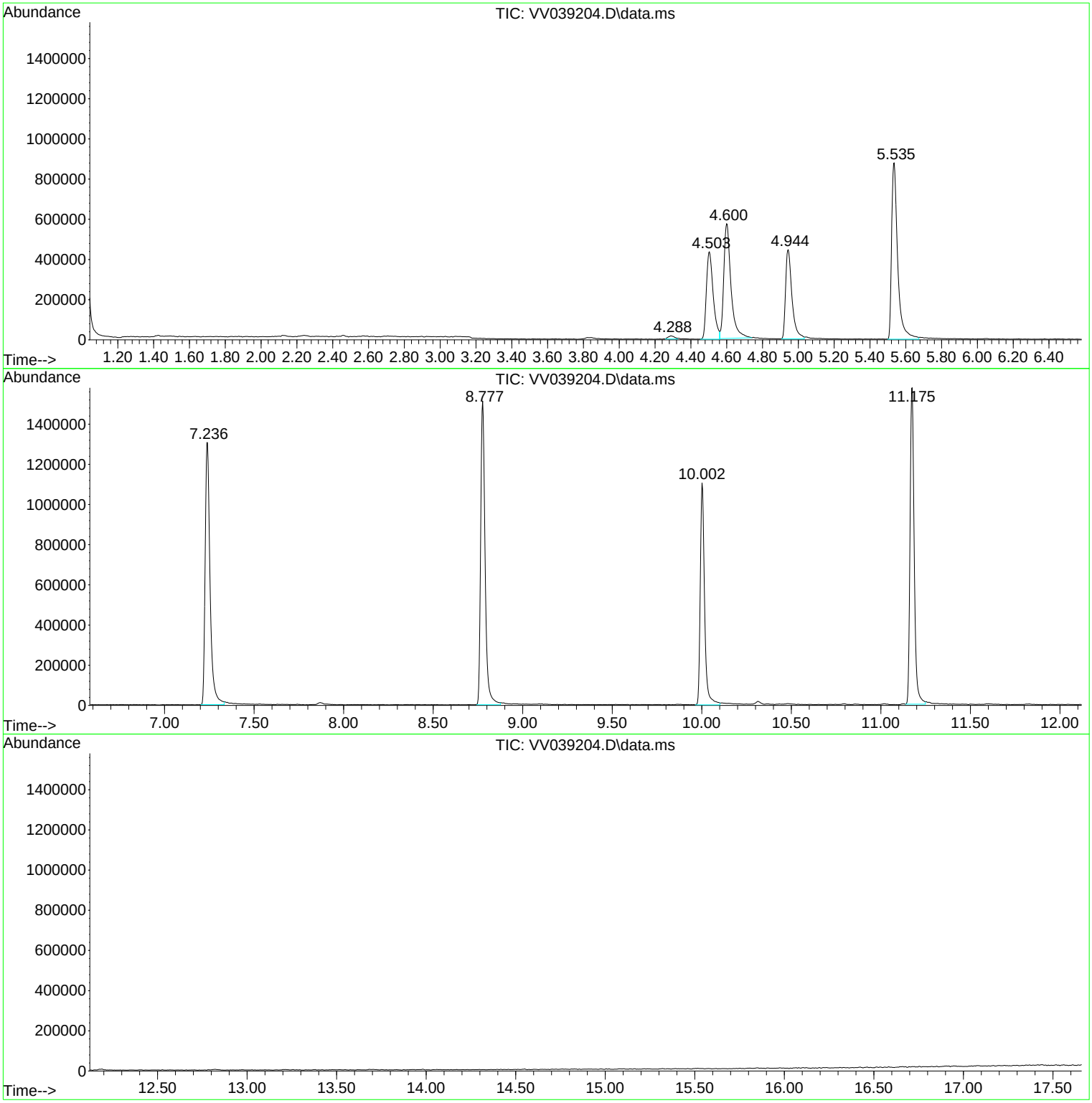
Sample Results: **VV039204.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-26-091925-FD	SDG No.:	Q3195
Lab Sample ID:	Q3195-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039212.D	1	09/26/25 14:58	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.10		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-26-091925-FD	SDG No.:	Q3195
Lab Sample ID:	Q3195-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039212.D	1	09/26/25 14:58	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.7		74 - 125	121%	SPK: 50
1868-53-7	Dibromofluoromethane	56.1		75 - 124	112%	SPK: 50
2037-26-5	Toluene-d8	47.7		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	454000	4.6			
540-36-3	1,4-Difluorobenzene	813000	5.535			
3114-55-4	Chlorobenzene-d5	842000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	399000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-26-091925-FD	SDG No.:	Q3195
Lab Sample ID:	Q3195-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039212.D	1	09/26/25 14:58	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Quant Time: Sep 27 02:57:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

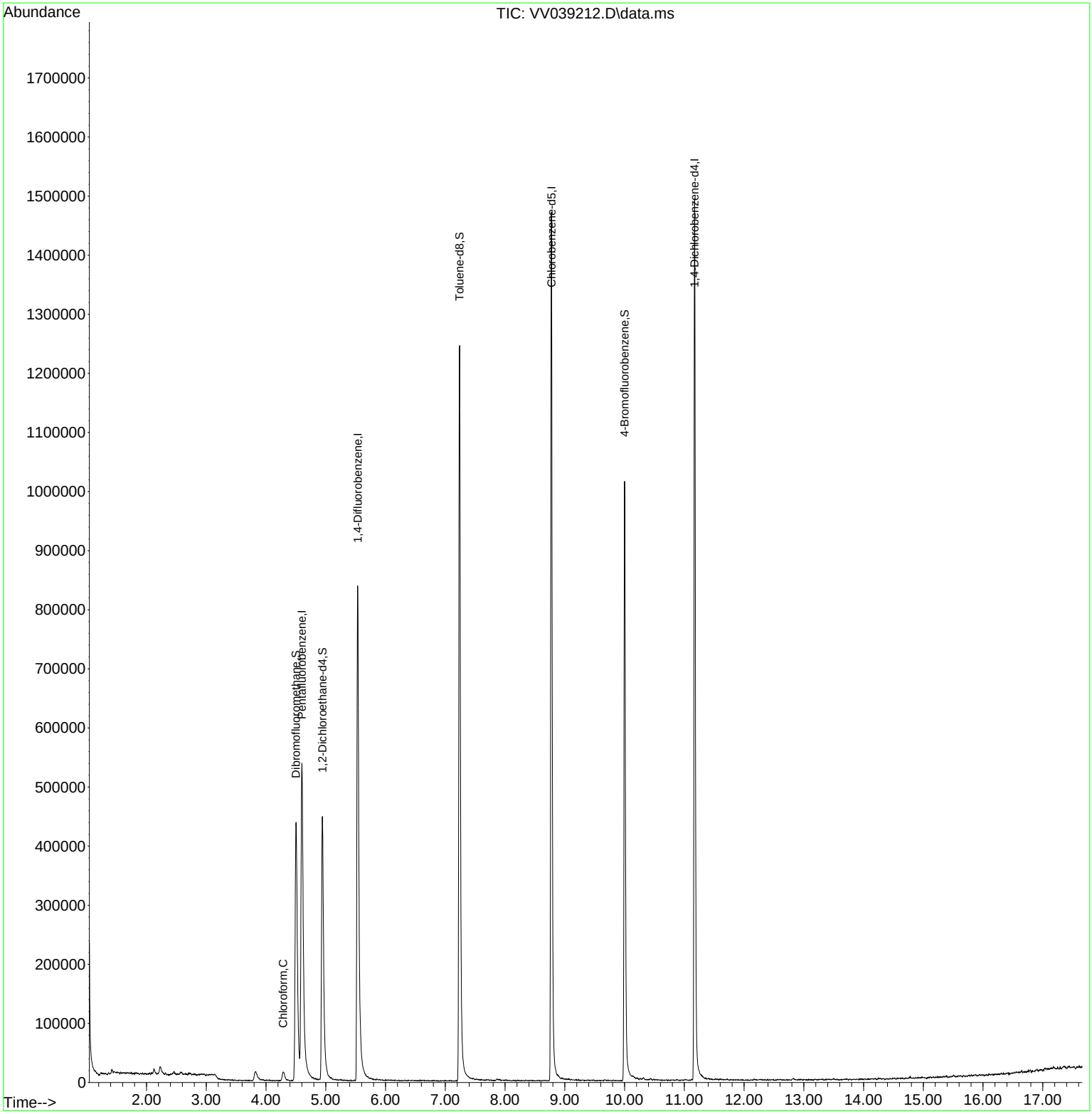
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	454191	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	813227	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	842320	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	398907	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	398953	60.691	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 121.380%#			
35) Dibromofluoromethane	4.503	113	366722	56.094	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 112.180%			
50) Toluene-d8	7.239	98	915207	47.664	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 95.320%			
62) 4-Bromofluorobenzene	10.001	95	350373	44.325	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.660%			
Target Compounds						Qvalue
30) Chloroform	4.288	83	17020	1.139	ug/l	89

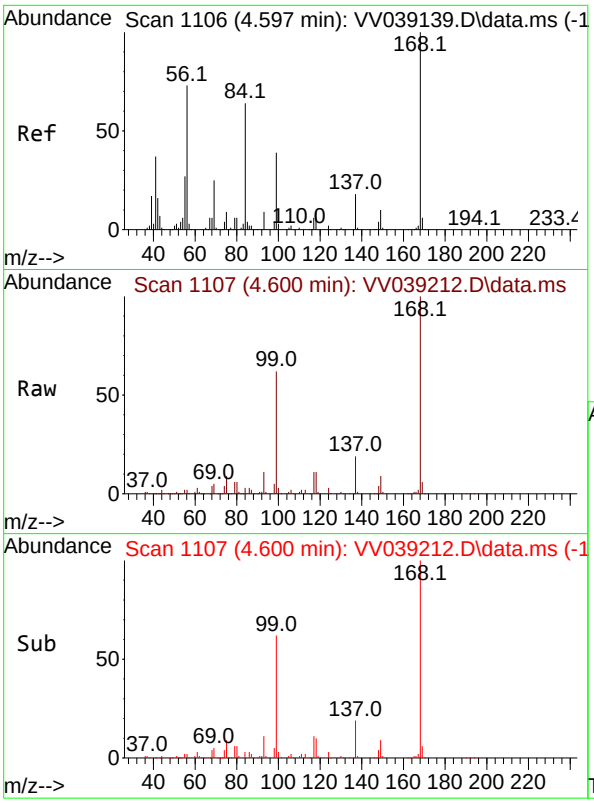
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Quant Time: Sep 27 02:57:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



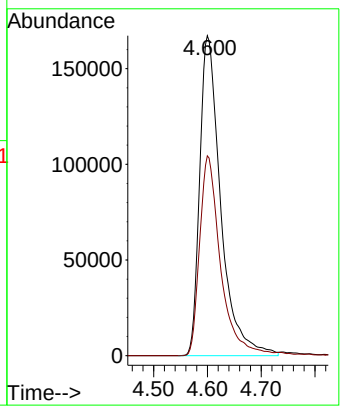


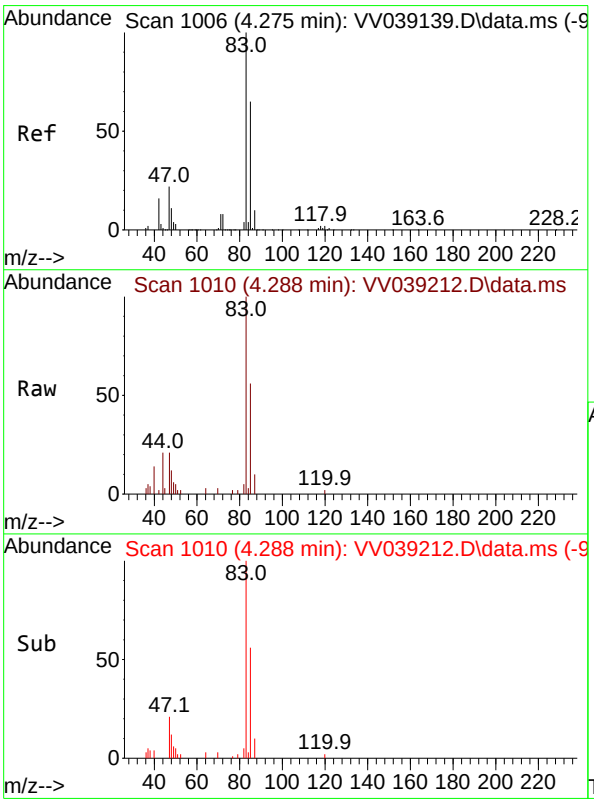
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Tgt Ion:168 Resp: 454191

Ion	Ratio	Lower	Upper
168	100		
99	62.4	49.6	74.4

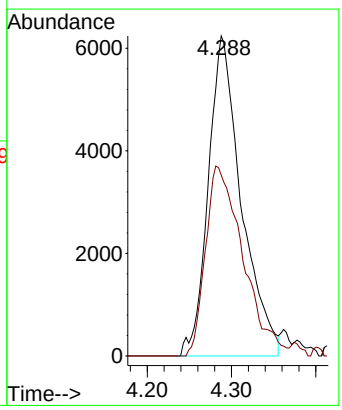


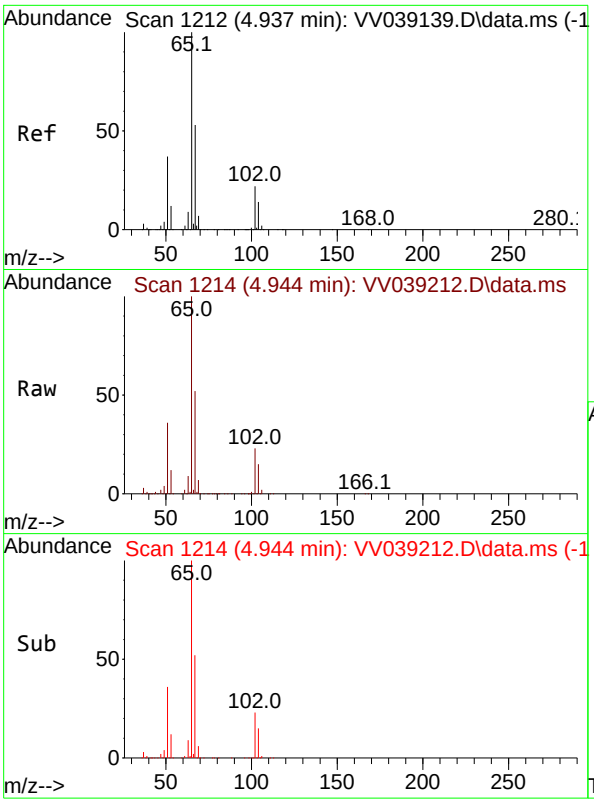


#30
Chloroform
Concen: 1.139 ug/l
RT: 4.288 min Scan# 1010
Delta R.T. 0.013 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 83 Resp: 17020

Ion	Ratio	Lower	Upper
83	100		
85	56.5	52.1	78.1



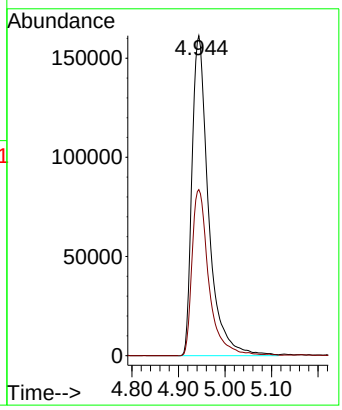


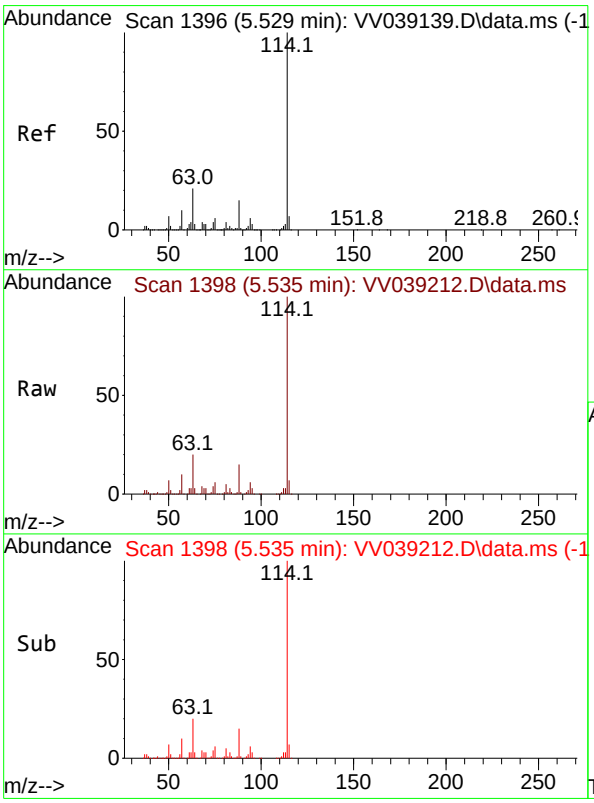
#33
1,2-Dichloroethane-d4
Concen: 60.691 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Tgt Ion: 65 Resp: 398953

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.0

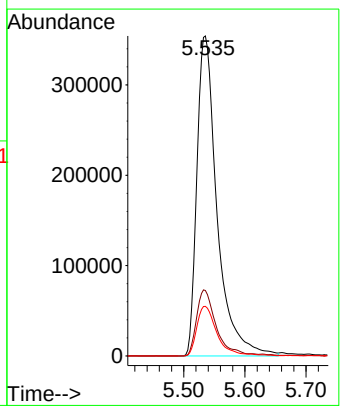


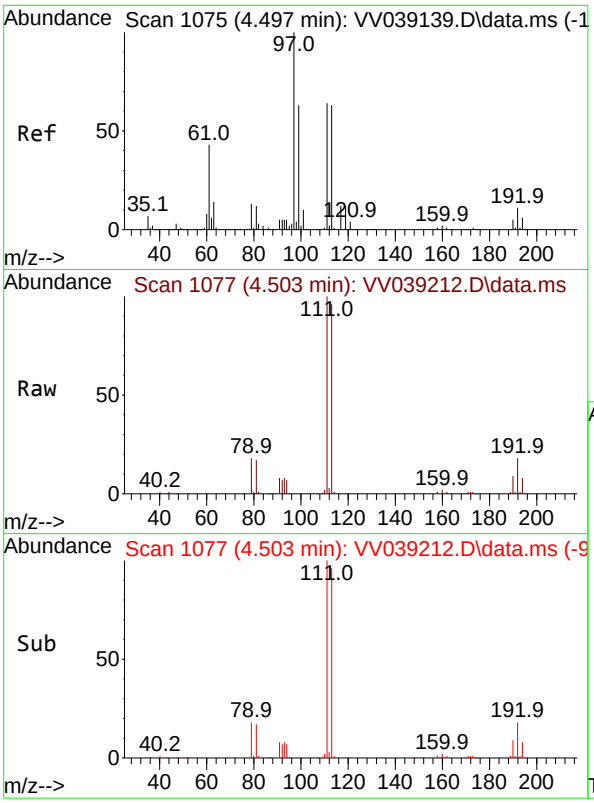


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion:114 Resp: 813227

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.6
88	15.5	0.0	30.8



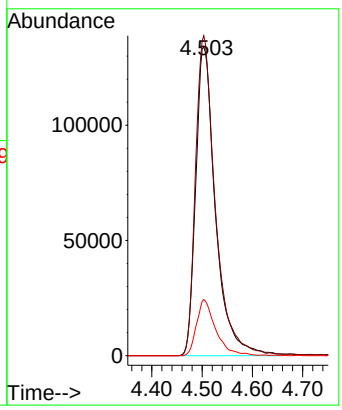


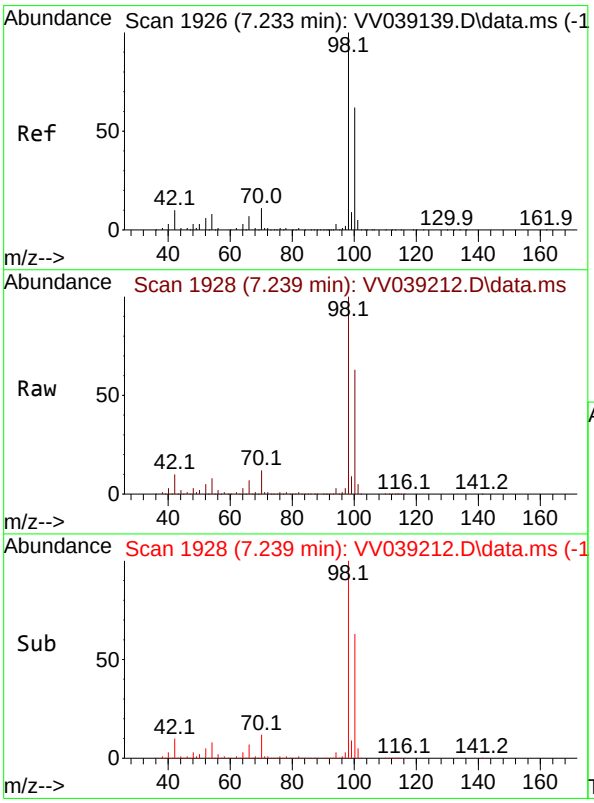
#35
Dibromofluoromethane
Concen: 56.094 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Tgt Ion:113 Resp: 366722

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.4	123.6
192	17.3	13.8	20.8

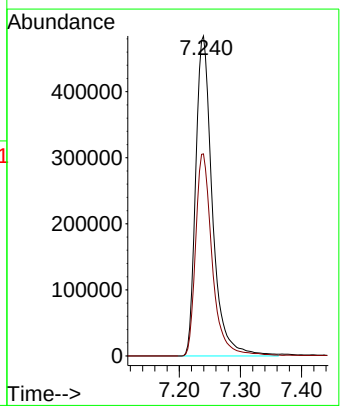


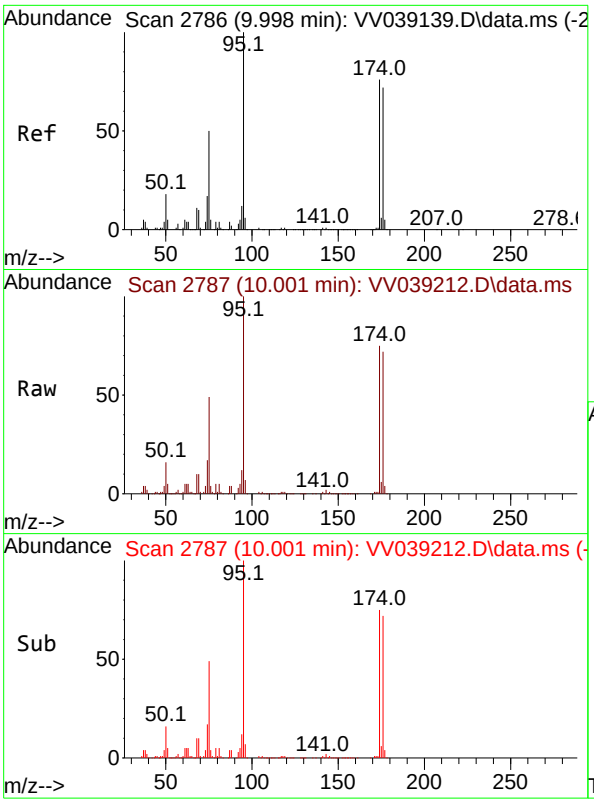


#50
Toluene-d8
Concen: 47.664 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 98 Resp: 915207

Ion	Ratio	Lower	Upper
98	100		
100	63.1	52.2	78.2



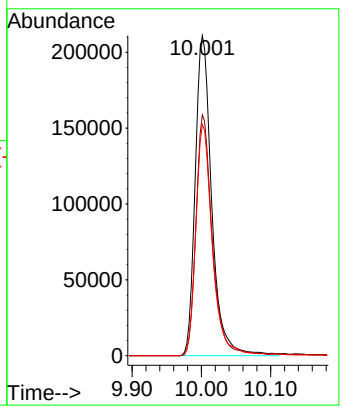


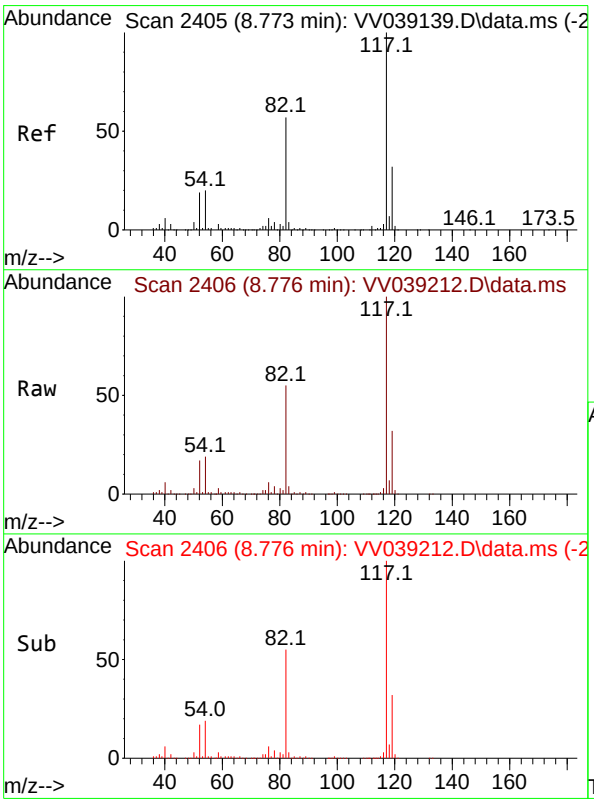
#62
4-Bromofluorobenzene
Concen: 44.325 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Tgt Ion: 95 Resp: 350373

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	150.4
176	72.0	0.0	144.2

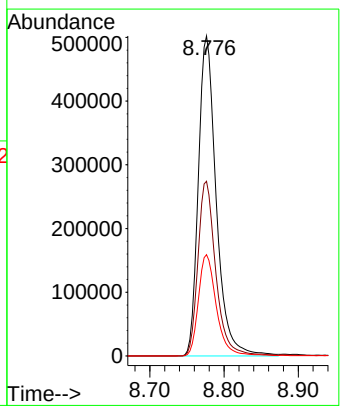


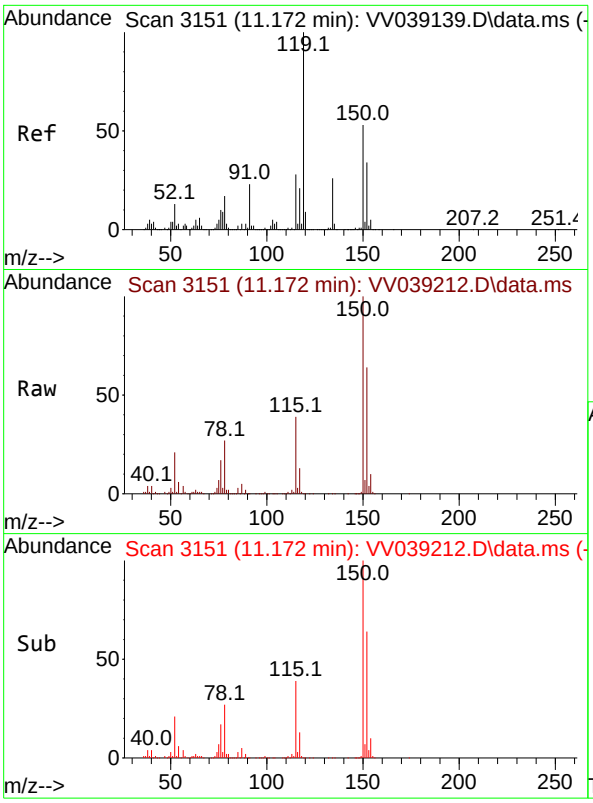


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion:117 Resp: 842320

Ion	Ratio	Lower	Upper
117	100		
82	54.6	45.4	68.2
119	31.6	25.6	38.4



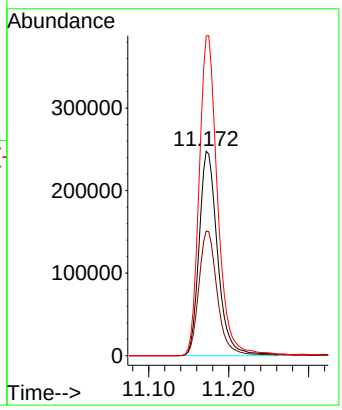


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Tgt Ion:152 Resp: 398907

Ion	Ratio	Lower	Upper
152	100		
115	61.7	44.8	134.4
150	156.4	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039212.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.828	851	867	881	rBV2	15426	50746	2.03%	0.342%
2	4.291	997	1011	1029	rBV4	14408	42422	1.70%	0.286%
3	4.503	1059	1077	1095	rBV	437678	1152550	46.08%	7.765%
4	4.600	1096	1107	1156	rVB	533135	1486851	59.45%	10.017%
5	4.944	1201	1214	1246	rBV	445517	1099401	43.96%	7.407%
6	5.532	1386	1397	1440	rBV	838129	1963319	78.50%	13.227%
7	7.240	1915	1928	1969	rBV	1245465	2409622	96.34%	16.234%
8	8.776	2395	2406	2436	rBV	1470065	2501158	100.00%	16.850%
9	10.001	2775	2787	2825	rBV	1015179	1718732	68.72%	11.579%
10	11.172	3140	3151	3186	rBV	1491188	2418679	96.70%	16.295%

Sum of corrected areas: 14843480

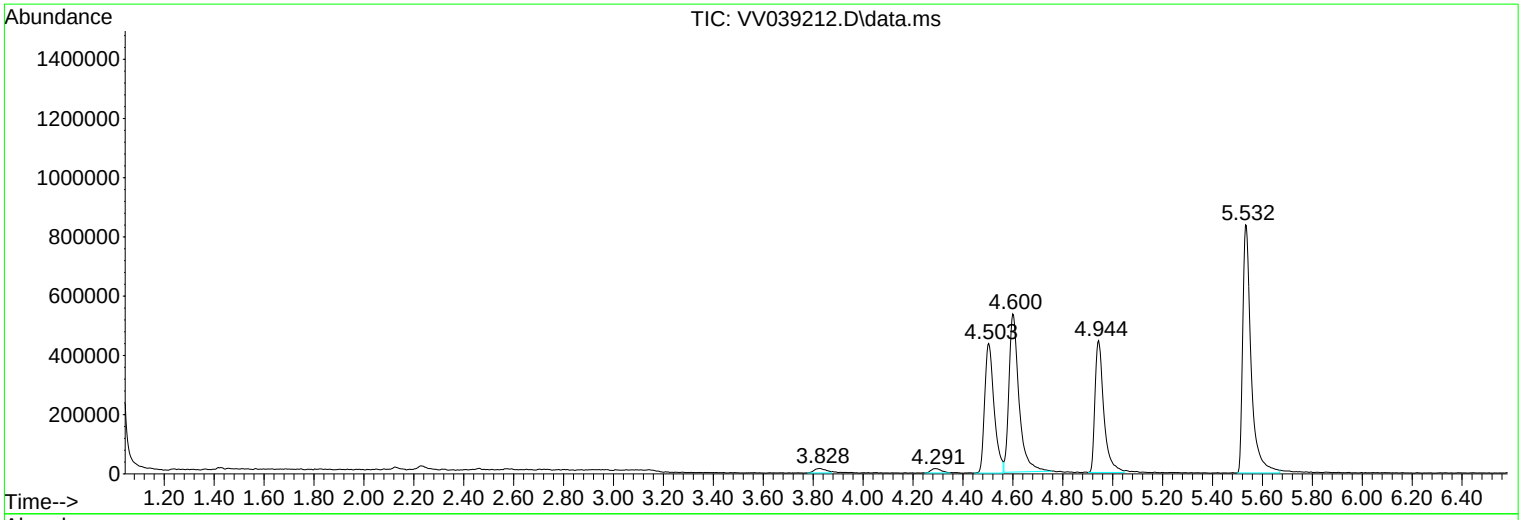
Sample Results: **VV039212.D**

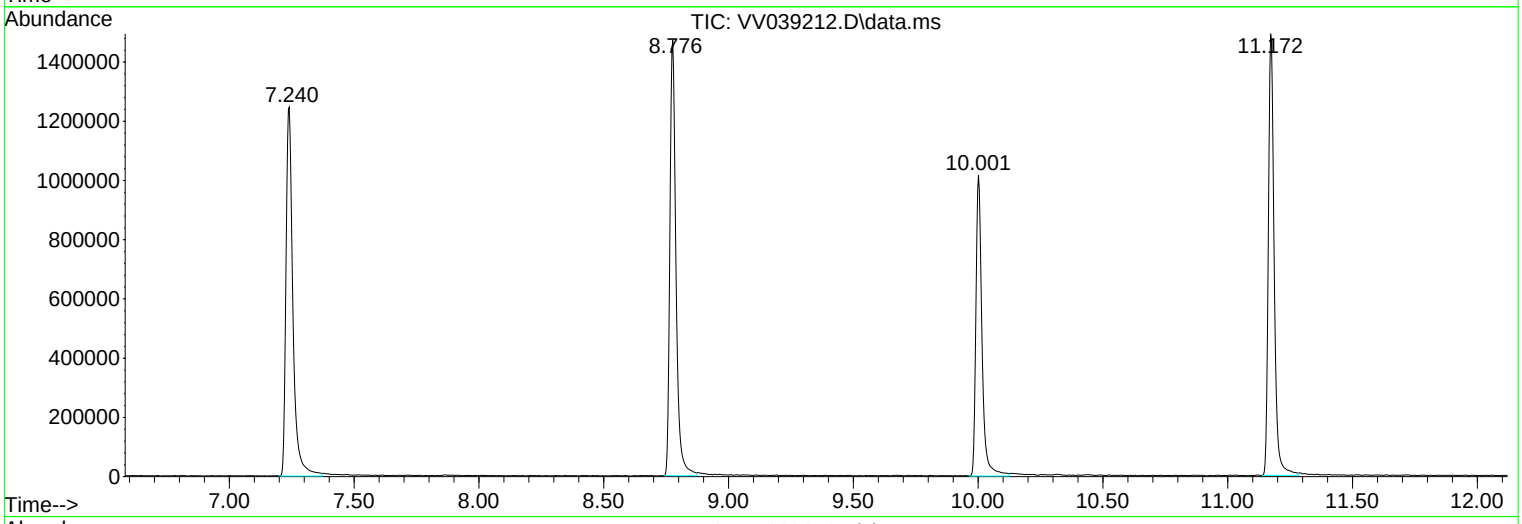
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

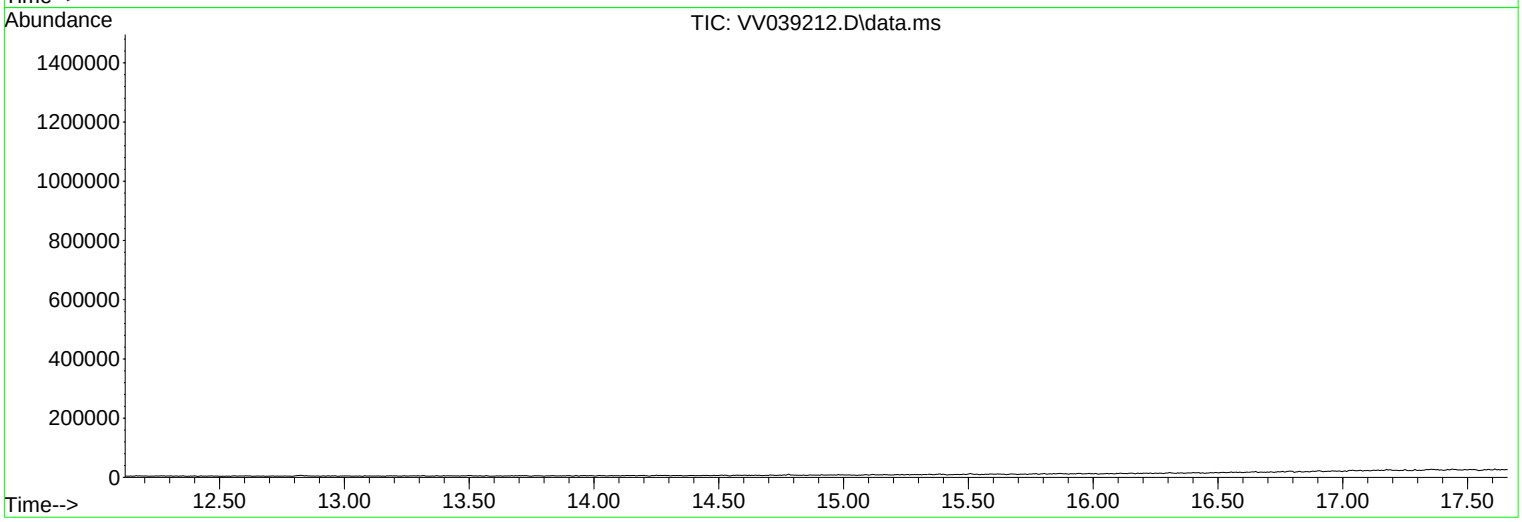
Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-29-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039213.D	1	09/26/25 15:20	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.31	J	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.36	J	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.80		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	2.90		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-29-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039213.D	1	09/26/25 15:20	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.8		74 - 125	124%	SPK: 50
1868-53-7	Dibromofluoromethane	56.0		75 - 124	112%	SPK: 50
2037-26-5	Toluene-d8	46.3		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		77 - 121	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	451000	4.6			
540-36-3	1,4-Difluorobenzene	820000	5.535			
3114-55-4	Chlorobenzene-d5	842000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	392000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/23/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-29-092325	SDG No.:	Q3195
Lab Sample ID:	Q3195-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039213.D	1	09/26/25 15:20	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Quant Time: Sep 27 02:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

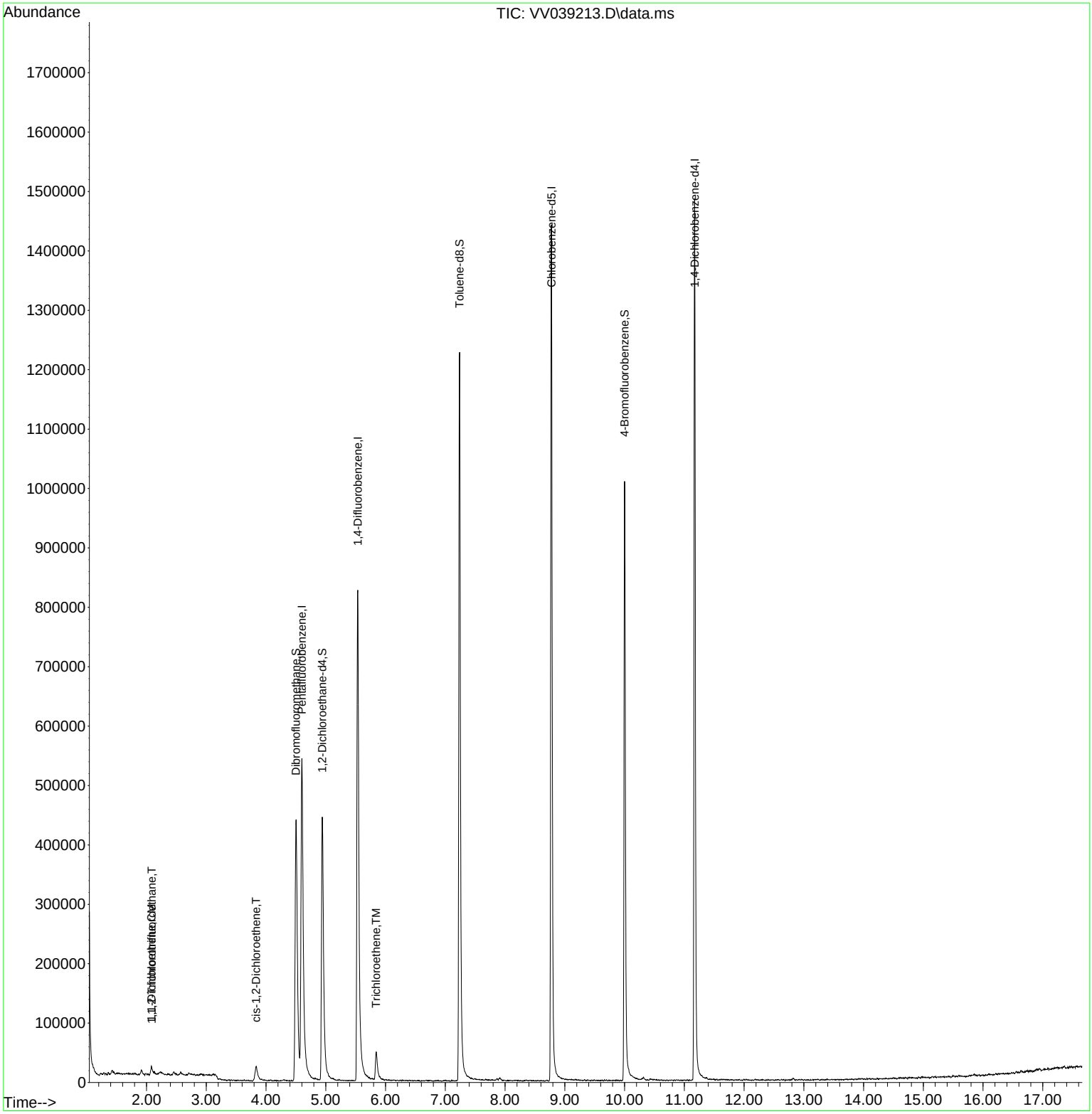
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	450640	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	819940	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	841715	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	391674	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	402866	61.769	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 123.540%#			
35) Dibromofluoromethane	4.503	113	368992	55.979	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 111.960%			
50) Toluene-d8	7.239	98	896272	46.296	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.600%			
62) 4-Bromofluorobenzene	10.001	95	348361	43.710	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.420%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.089	101	2185	0.309	ug/l #	85
12) 1,1-Dichloroethene	2.082	96	2472	0.364	ug/l	83
27) cis-1,2-Dichloroethene	3.834	96	13996	1.754	ug/l	81
44) Trichloroethene	5.844	130	21362	2.853	ug/l	99

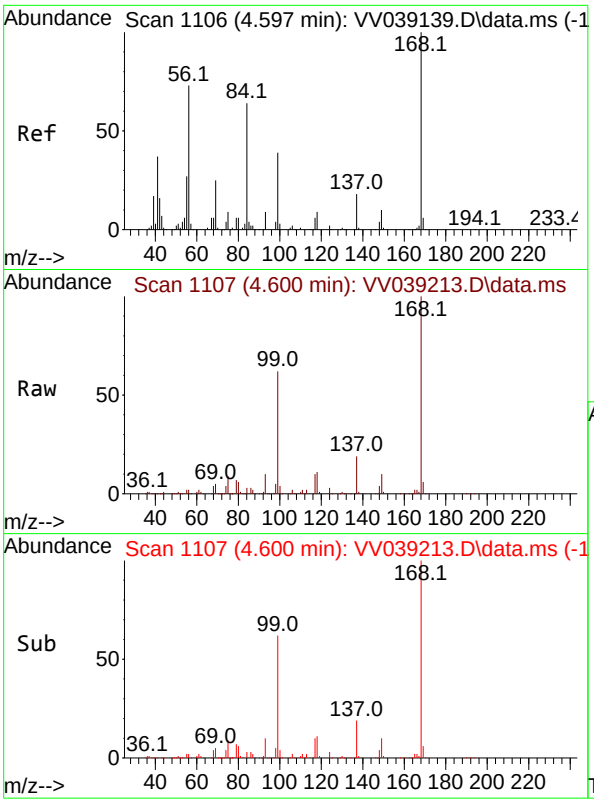
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Quant Time: Sep 27 02:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



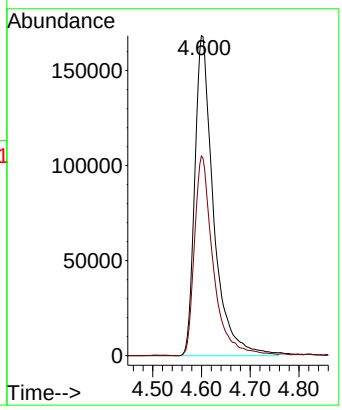


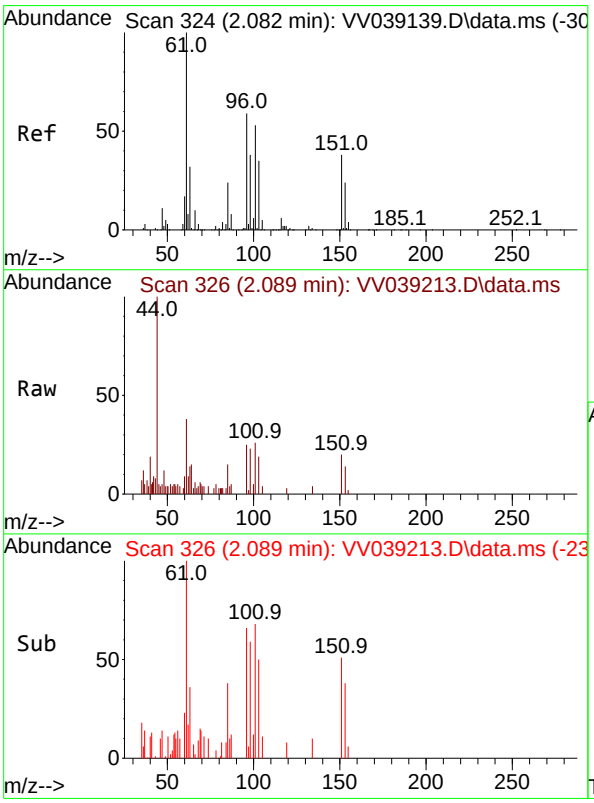
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Tgt Ion:168 Resp: 450640

Ion	Ratio	Lower	Upper
168	100		
99	62.4	49.6	74.4

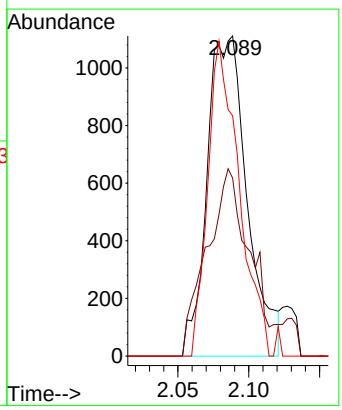


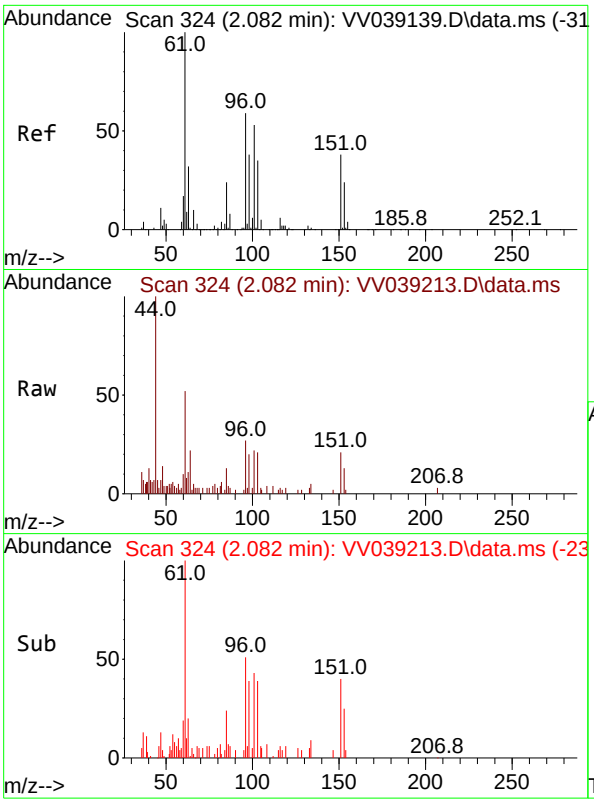


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.309 ug/l
RT: 2.089 min Scan# 326
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:101 Resp: 2185

Ion	Ratio	Lower	Upper
101	100		
85	62.2	36.2	54.2#
151	76.8	56.3	84.5



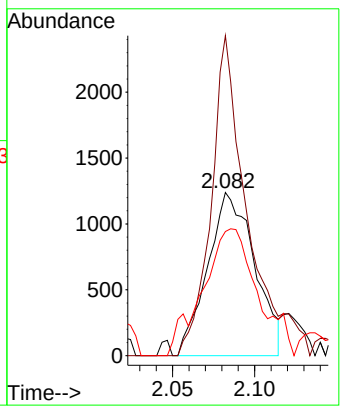


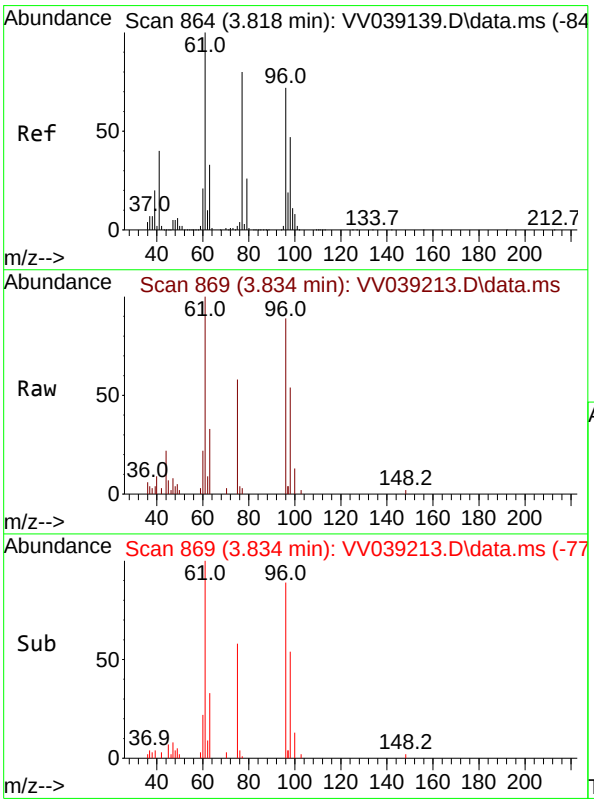
#12
1,1-Dichloroethene
Concen: 0.364 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Tgt Ion: 96 Resp: 2472

Ion	Ratio	Lower	Upper
96	100		
61	196.0	136.0	204.0
98	54.1	51.0	76.6

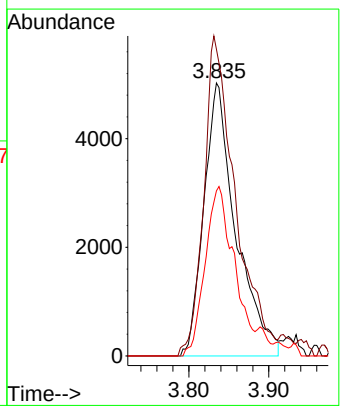


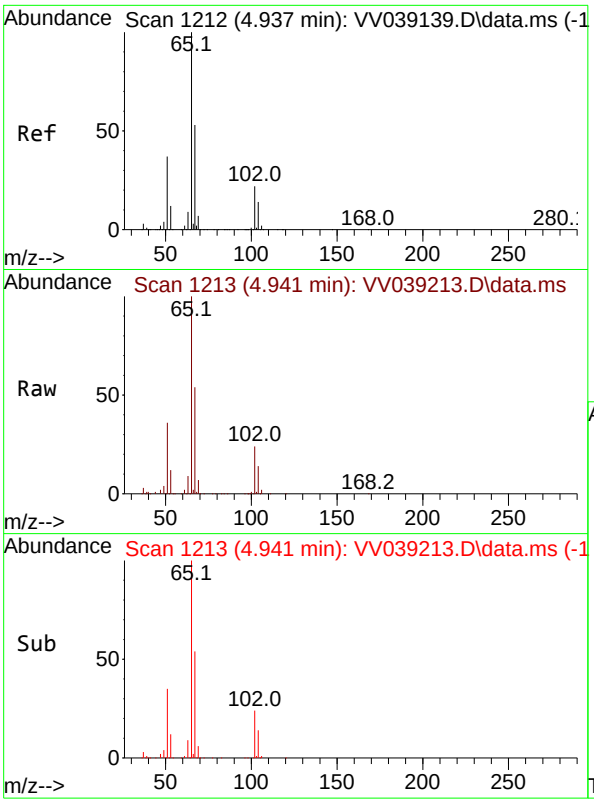


#27
cis-1,2-Dichloroethene
Concen: 1.754 ug/l
RT: 3.834 min Scan# 869
Delta R.T. 0.016 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion: 96 Resp: 13996

Ion	Ratio	Lower	Upper
96	100		
61	115.0	0.0	286.4
98	56.4	0.0	126.6



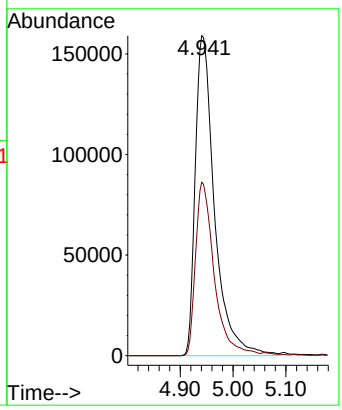


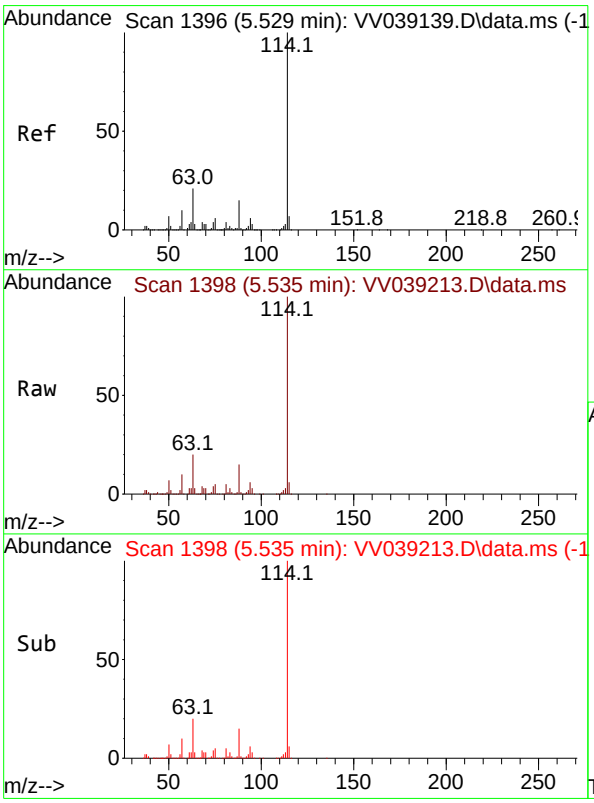
#33
1,2-Dichloroethane-d4
Concen: 61.769 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Tgt Ion: 65 Resp: 402866

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	107.0

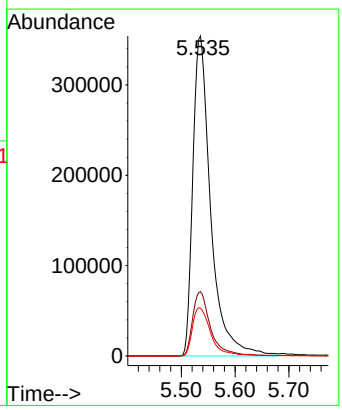


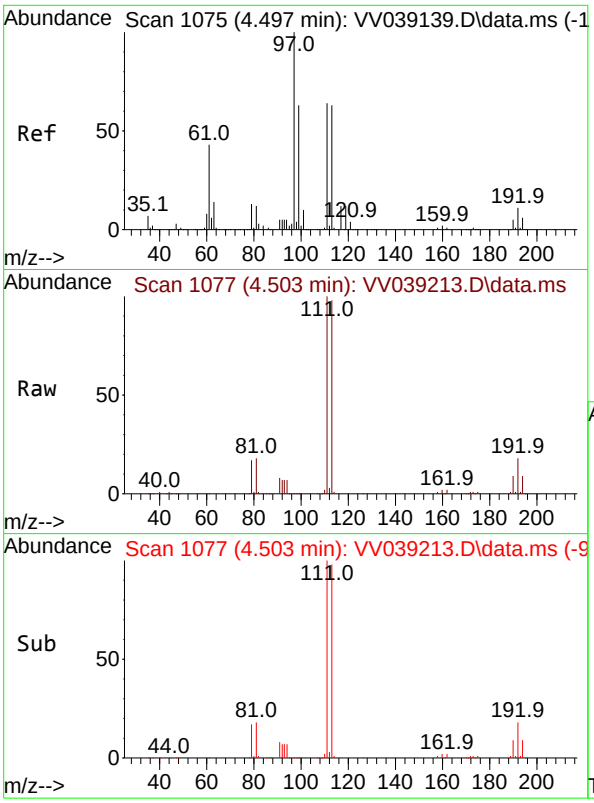


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:114 Resp: 819940

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.6
88	14.9	0.0	30.8



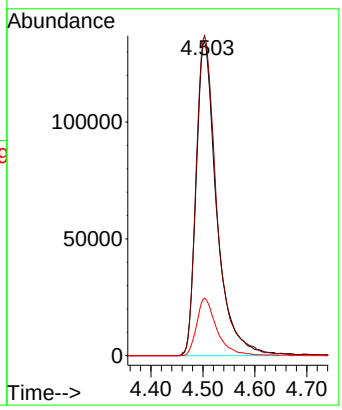


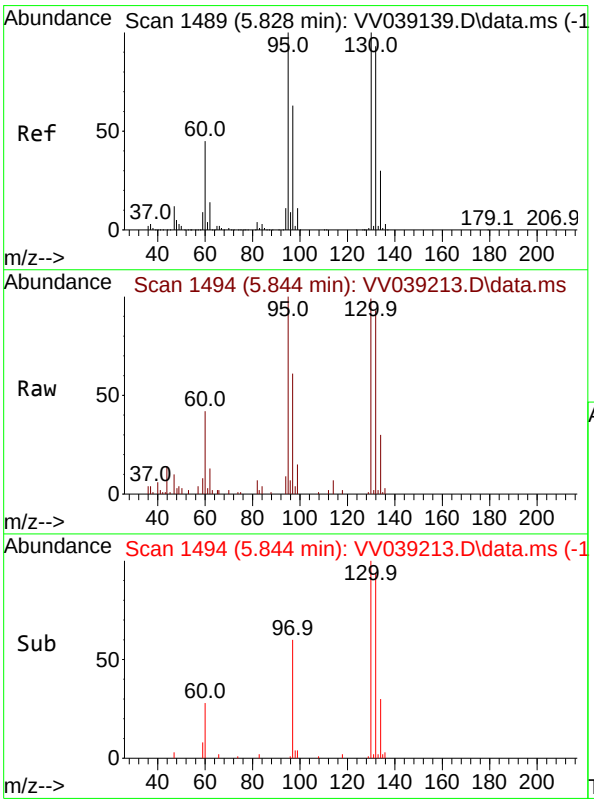
#35
Dibromofluoromethane
Concen: 55.979 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Tgt Ion:113 Resp: 368992

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	17.9	13.8	20.8

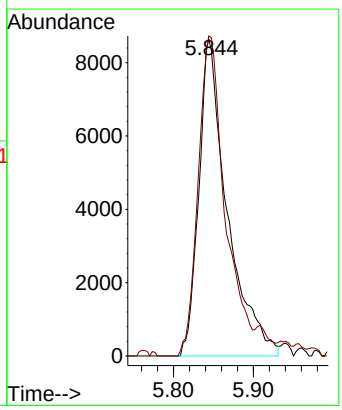


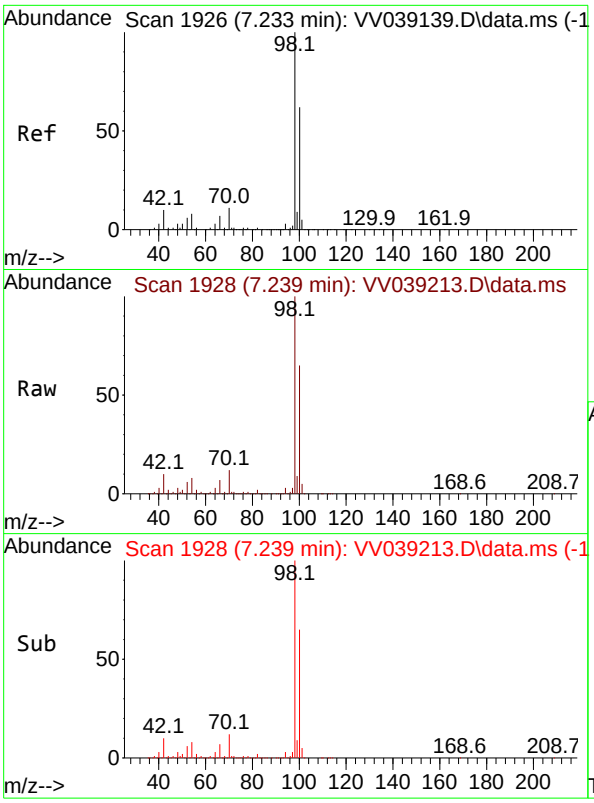


#44
Trichloroethene
Concen: 2.853 ug/l
RT: 5.844 min Scan# 1494
Delta R.T. 0.016 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:130 Resp: 21362

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	199.2



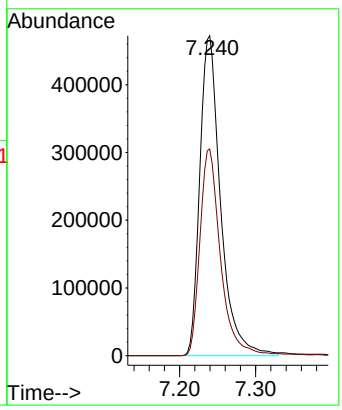


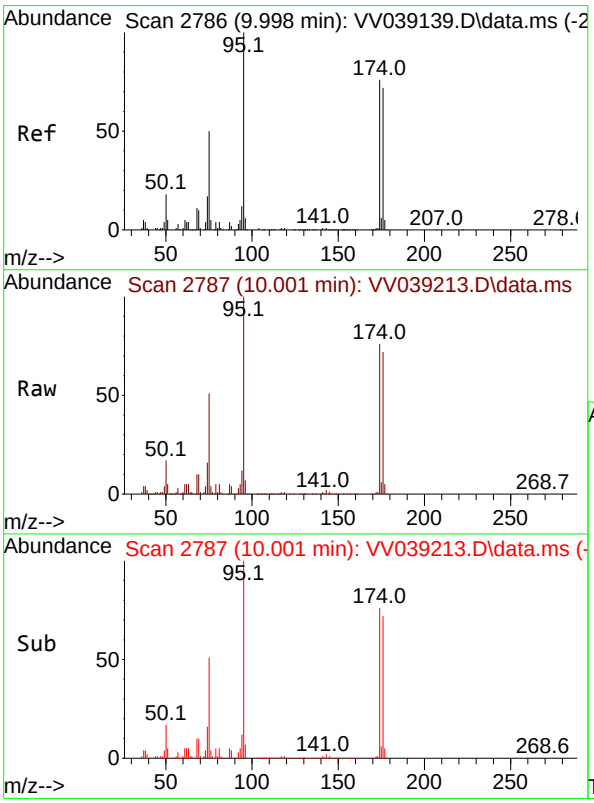
#50
Toluene-d8
Concen: 46.296 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Tgt Ion: 98 Resp: 896272

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2

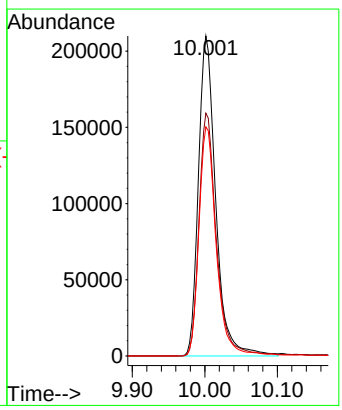


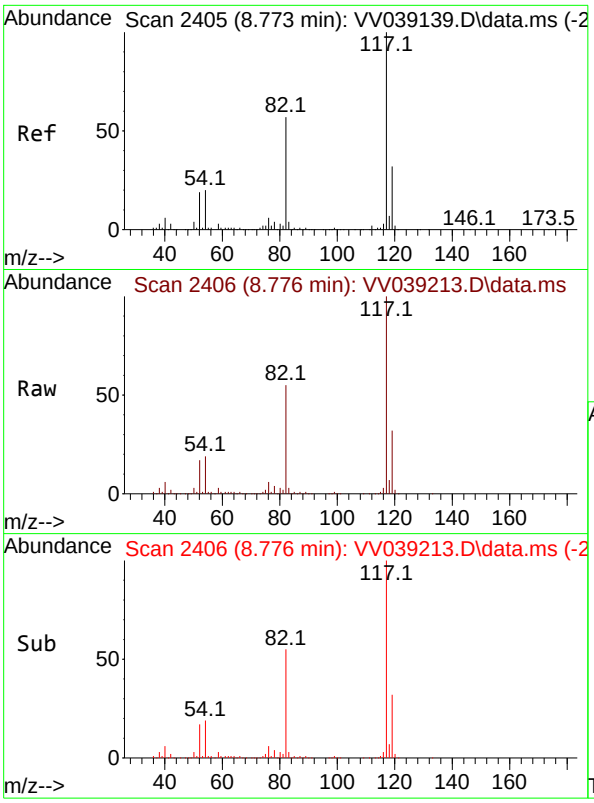


#62
4-Bromofluorobenzene
Concen: 43.710 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion: 95 Resp: 348361

Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	150.4
176	70.5	0.0	144.2



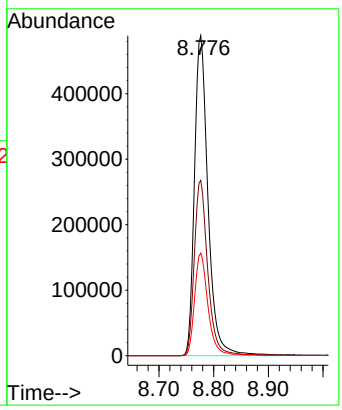


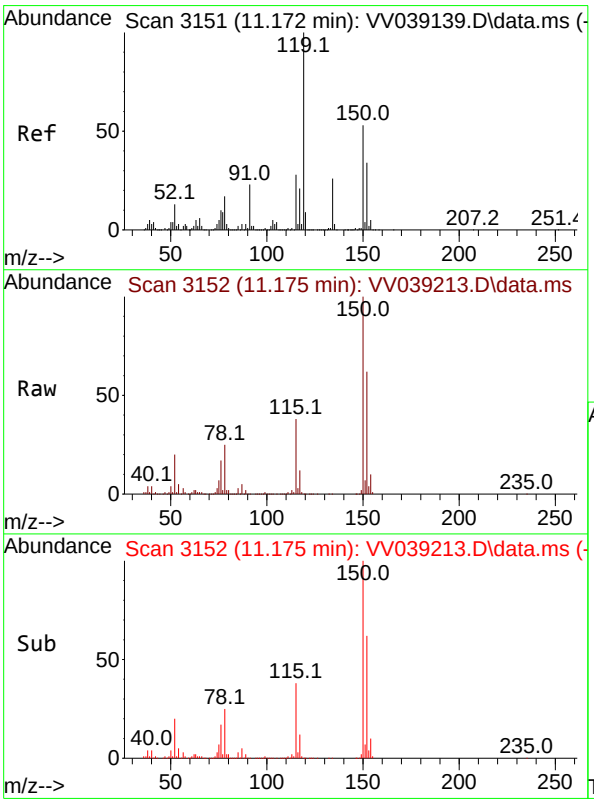
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Tgt Ion:117 Resp: 841715

Ion	Ratio	Lower	Upper
117	100		
82	54.8	45.4	68.2
119	32.0	25.6	38.4

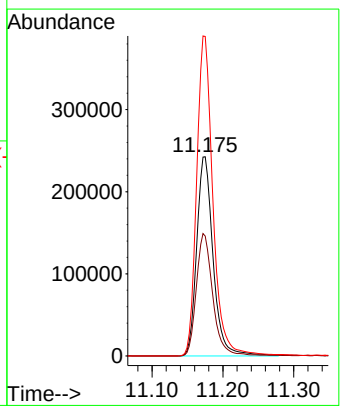




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:152 Resp: 391674

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.8	134.4
150	159.3	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039213.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.838	848	870	888	rBV3	25184	80262	3.20%	0.542%
2	4.503	1058	1077	1096	rBV2	440243	1162739	46.42%	7.846%
3	4.600	1096	1107	1145	rVB	534109	1428127	57.01%	9.637%
4	4.941	1200	1213	1248	rBV	442561	1110064	44.32%	7.491%
5	5.535	1381	1398	1438	rBV	826188	1954449	78.03%	13.189%
6	5.844	1485	1494	1510	rBV3	45625	105099	4.20%	0.709%
7	7.240	1916	1928	1967	rBV	1226299	2379300	94.99%	16.056%
8	8.776	2392	2406	2442	rBV	1442221	2504830	100.00%	16.903%
9	10.001	2776	2787	2819	rBV	1008454	1699635	67.85%	11.469%
10	11.172	3140	3151	3184	rBV	1483545	2394647	95.60%	16.159%

Sum of corrected areas: 14819152

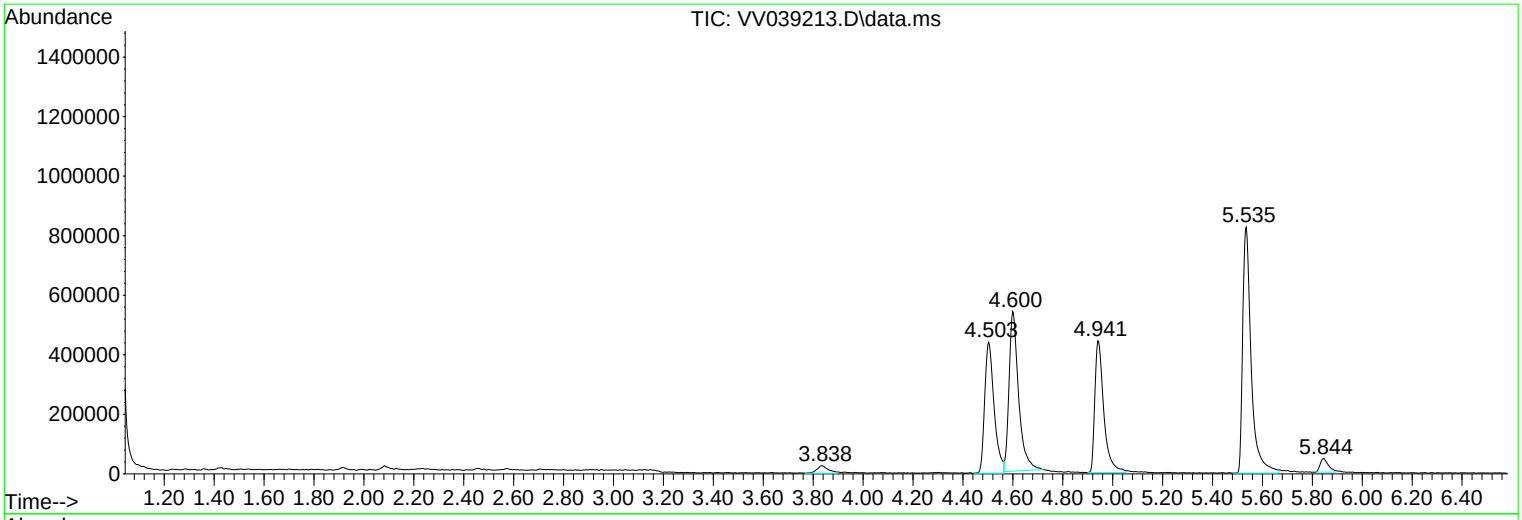
Sample Results: **VV039213.D**

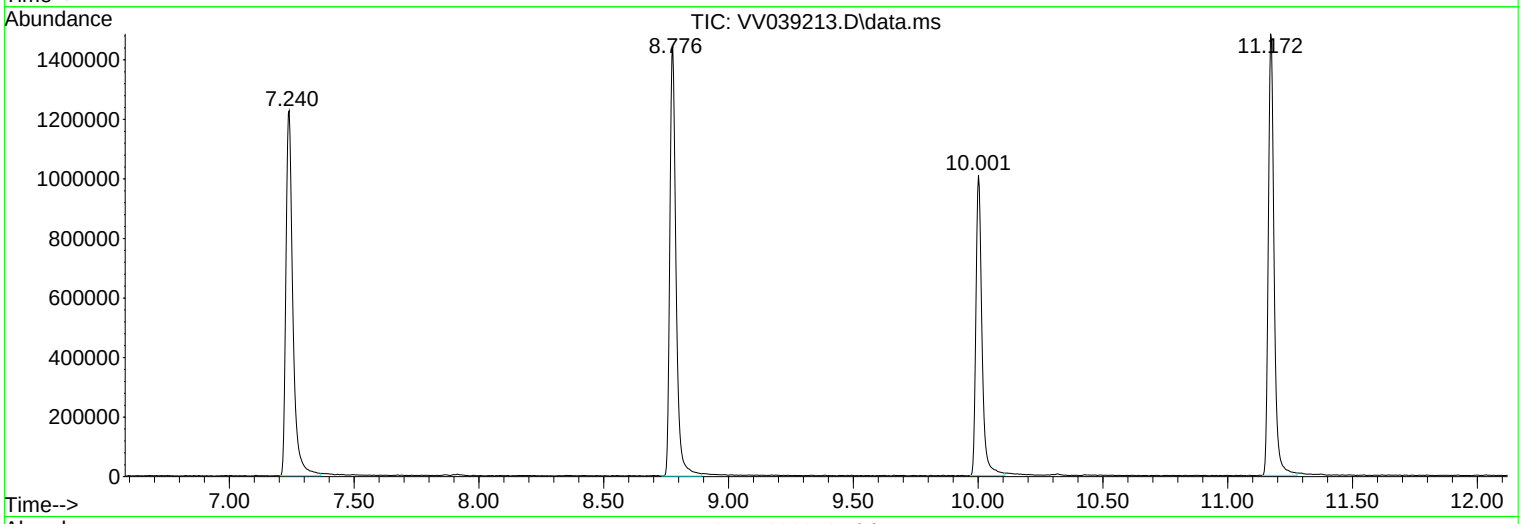
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

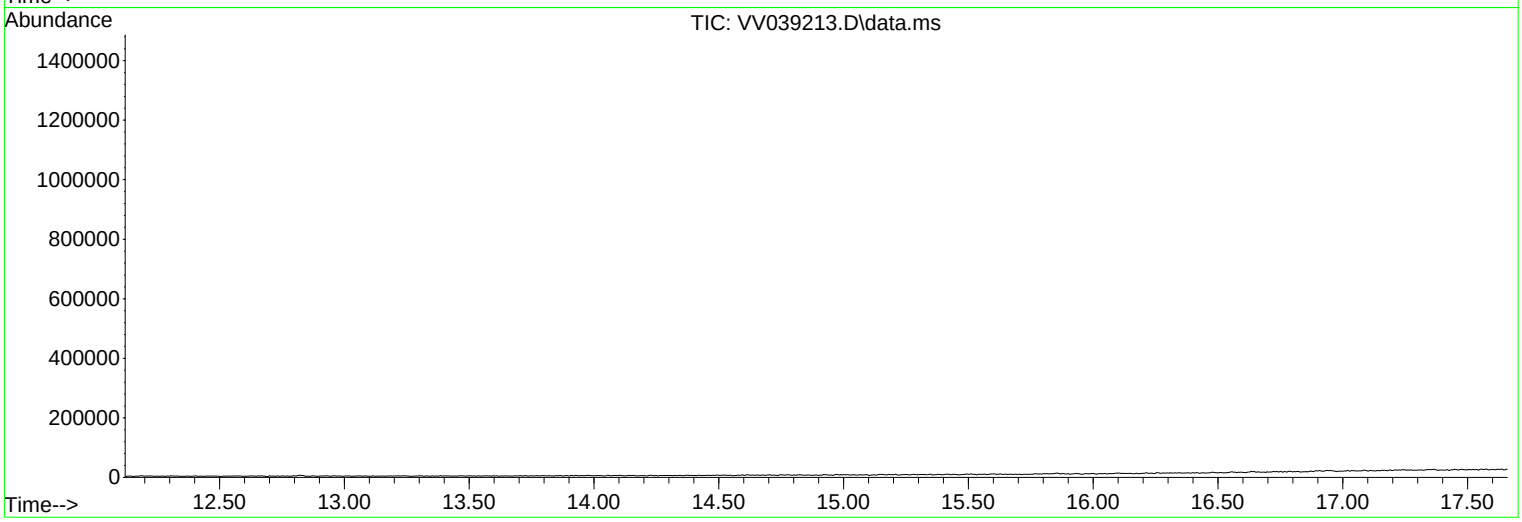
Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-29-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31S-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039214.D	1	09/26/25 15:43	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00		0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	280	E	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	2.40		0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	2.70		0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.20		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	28.3		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31S-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039214.D	1	09/26/25 15:43	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.3		74 - 125	125%	SPK: 50
1868-53-7	Dibromofluoromethane	57.3		75 - 124	115%	SPK: 50
2037-26-5	Toluene-d8	48.4		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	445000	4.603			
540-36-3	1,4-Difluorobenzene	811000	5.535			
3114-55-4	Chlorobenzene-d5	838000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	400000	11.172			
TENTATIVE IDENTIFIED COMPOUNDS						

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31S-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039214.D	1	09/26/25 15:43	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluo	8.70	J		1.92	ug/L
123-91-1	1,4-Dioxane	40.1	J		6.32	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 29 07:51:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	444783	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	811223	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	838423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	399971	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	401052	62.301	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 124.600%#			
35) Dibromofluoromethane	4.503	113	373594	57.286	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 114.580%			
50) Toluene-d8	7.236	98	927814	48.440	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 96.880%			
62) 4-Bromofluorobenzene	10.001	95	350123	44.403	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.098	85	14228	2.021	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.082	101	1950855	279.858	ug/l	98
12) 1,1-Dichloroethene	2.085	96	16213	2.418	ug/l	83
24) 1,1-Dichloroethane	3.124	63	37925	2.706	ug/l	97
32) 1,1,1-Trichloroethane	4.510	97	28259	2.230	ug/l	98
44) Trichloroethene	5.831	130	209487	28.275	ug/l	98
49) 1,4-Dioxane	6.320	88	4783m	40.080	ug/l	

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

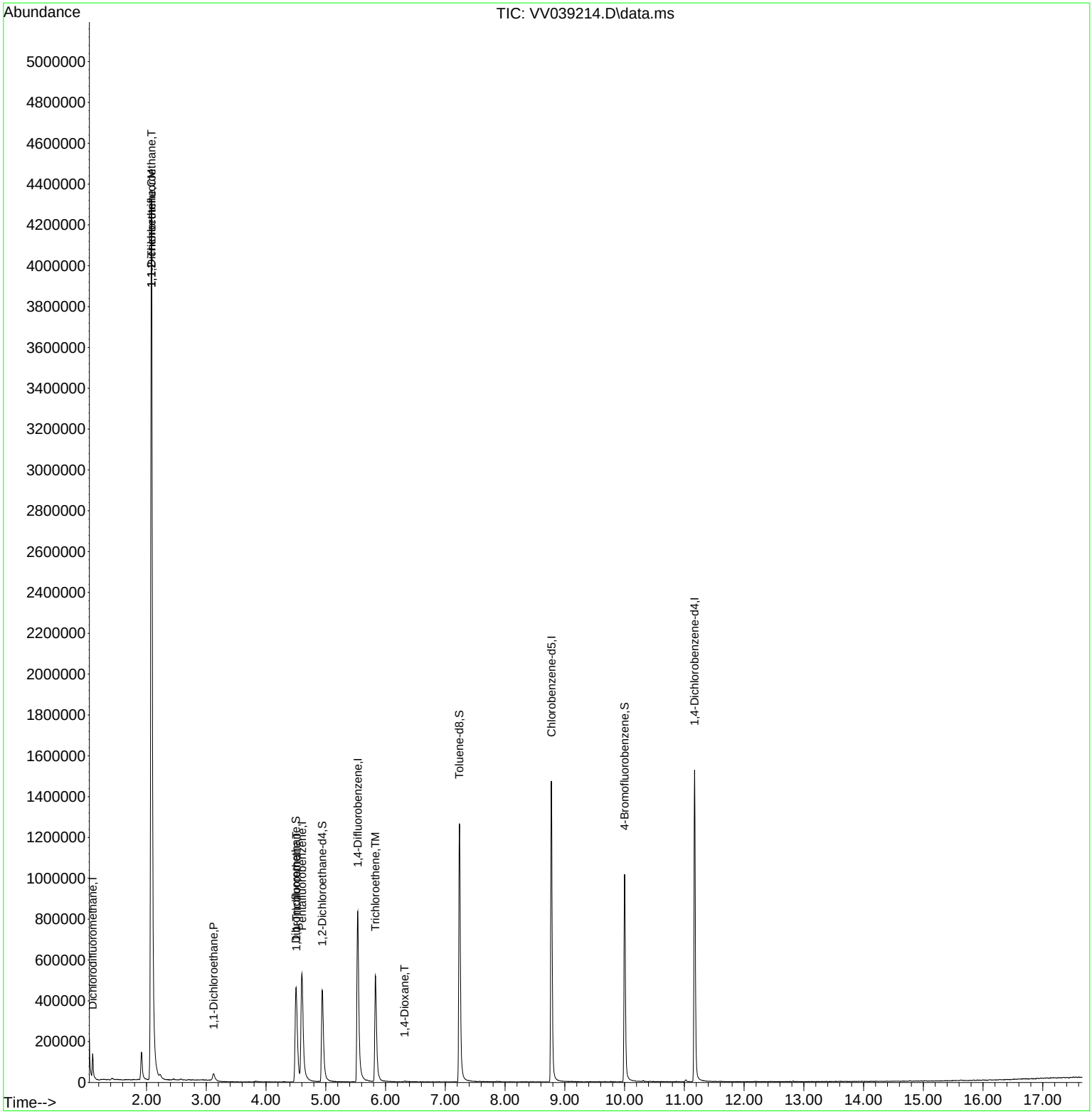
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

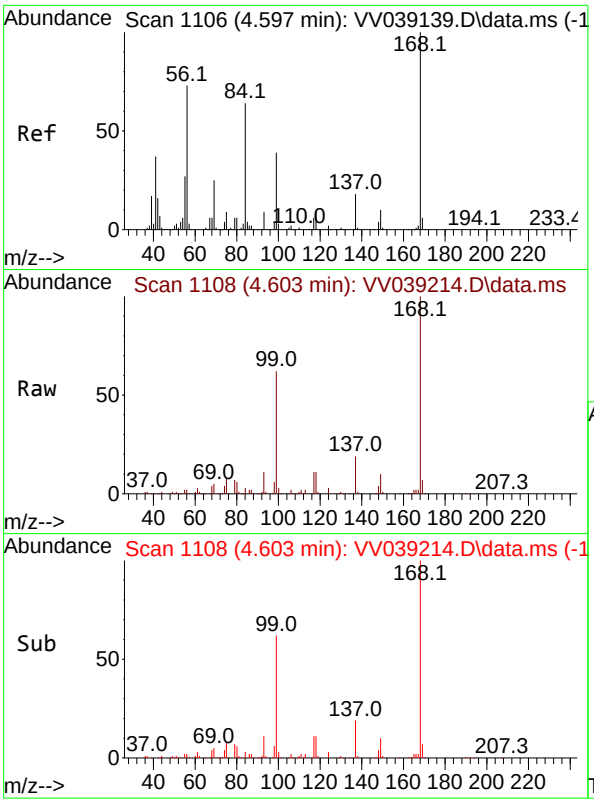
Quant Time: Sep 29 07:51:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

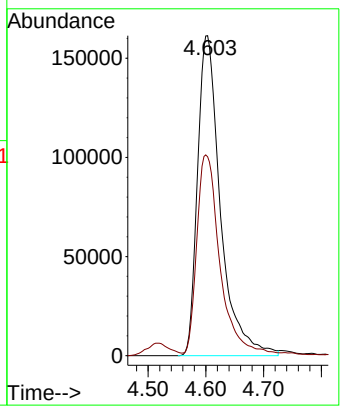




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:168 Resp: 44478

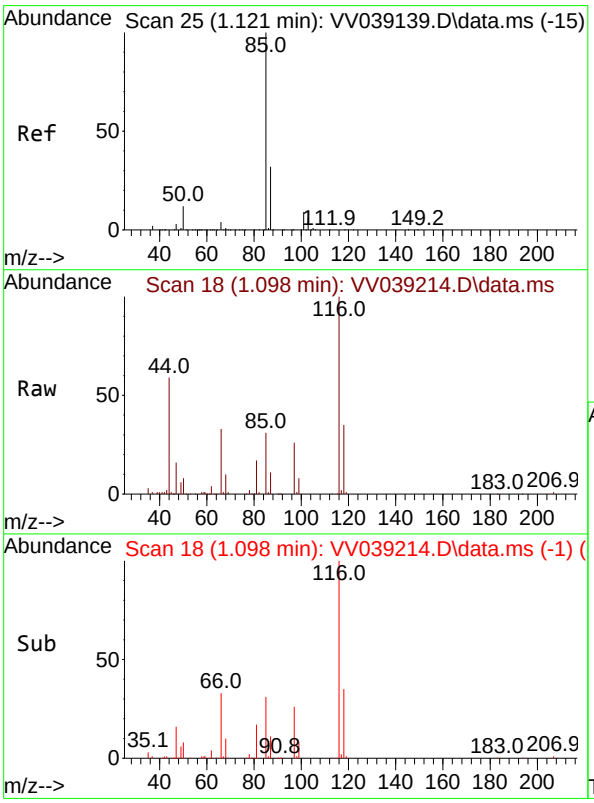
Ion	Ratio	Lower	Upper
168	100		
99	61.2	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

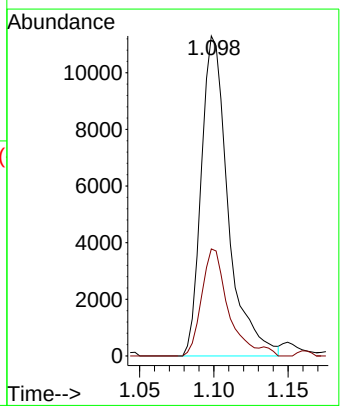
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

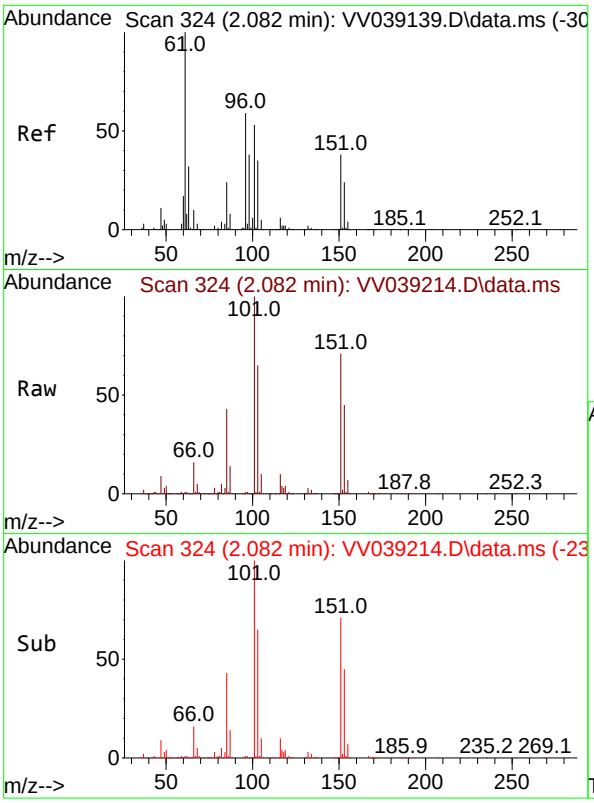


#2
Dichlorodifluoromethane
Concen: 2.021 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 85 Resp: 14228

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.0	47.9





#9
1,1,2-Trichlorotrifluoroethane
Concen: 279.858 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

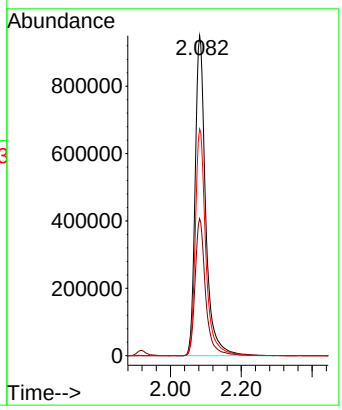
Tgt Ion:101 Resp: 195085

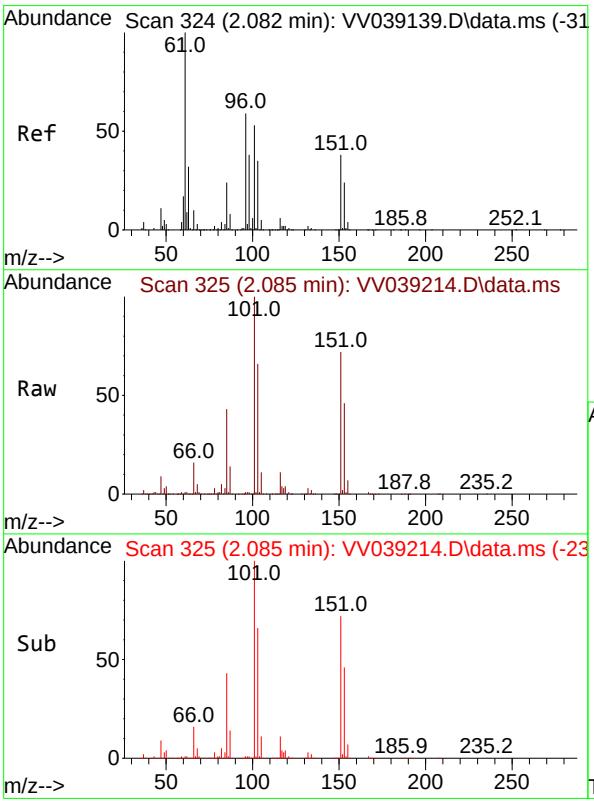
Ion	Ratio	Lower	Upper
101	100		
85	42.8	36.2	54.2
151	71.2	56.3	84.5

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

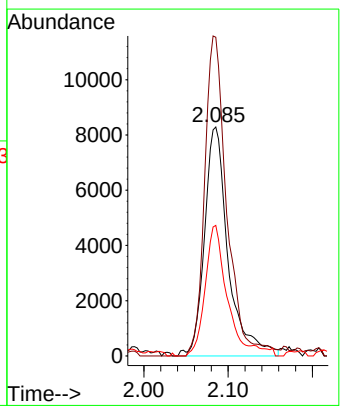


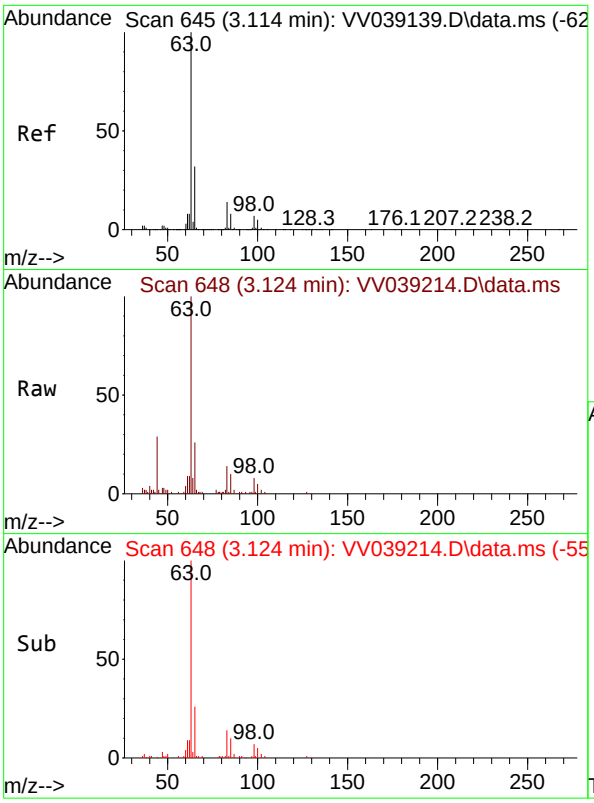


#12
1,1-Dichloroethene
Concen: 2.418 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 96 Resp: 16213

Ion	Ratio	Lower	Upper
96	100		
61	142.4	136.0	204.0
98	58.3	51.0	76.6

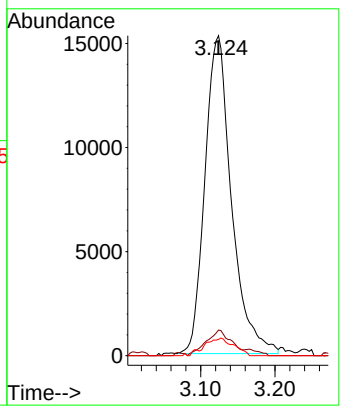




#24
1,1-Dichloroethane
Concen: 2.706 ug/l
RT: 3.124 min Scan# 64
Delta R.T. 0.010 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 63 Resp: 3792

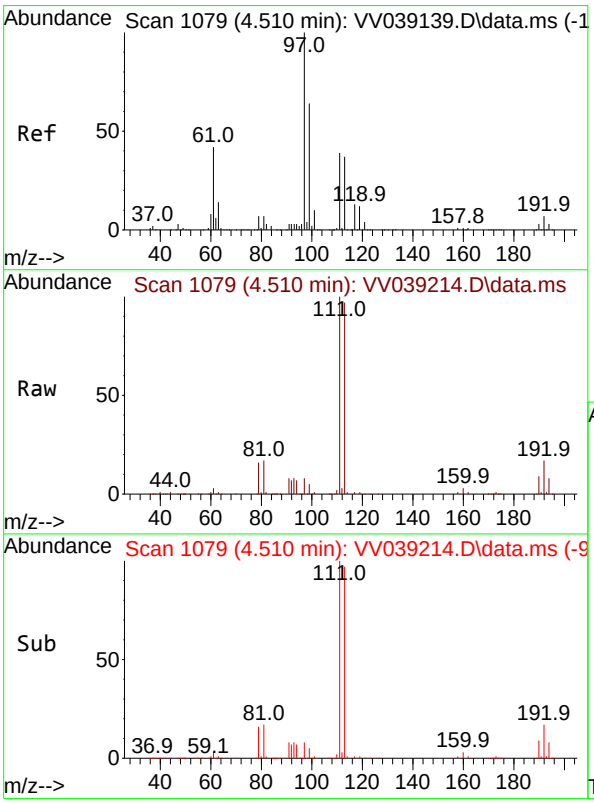
Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.4	10.2
100	5.1	2.2	6.6



Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

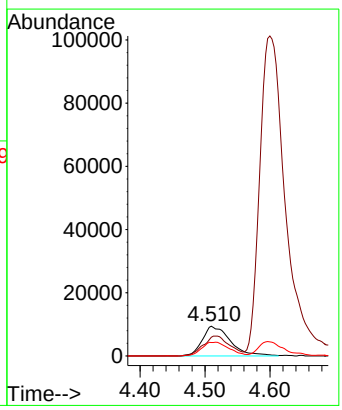
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

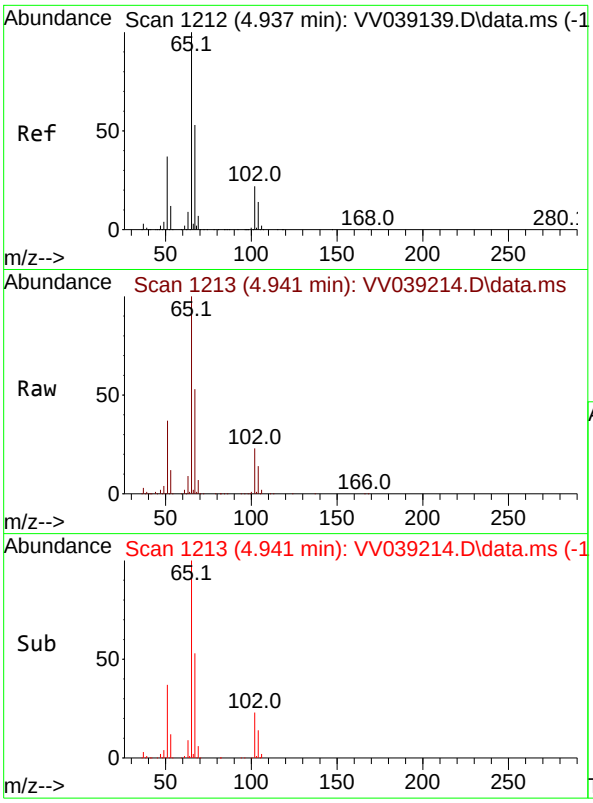


#32
1,1,1-Trichloroethane
Concen: 2.230 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 97 Resp: 28259

Ion	Ratio	Lower	Upper
97	100		
99	62.5	49.6	74.4
61	44.9	34.5	51.7

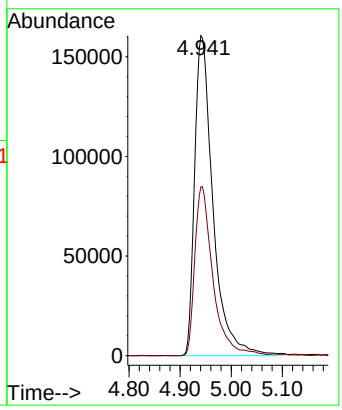




#33
1,2-Dichloroethane-d4
Concen: 62.301 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 65 Resp: 40105

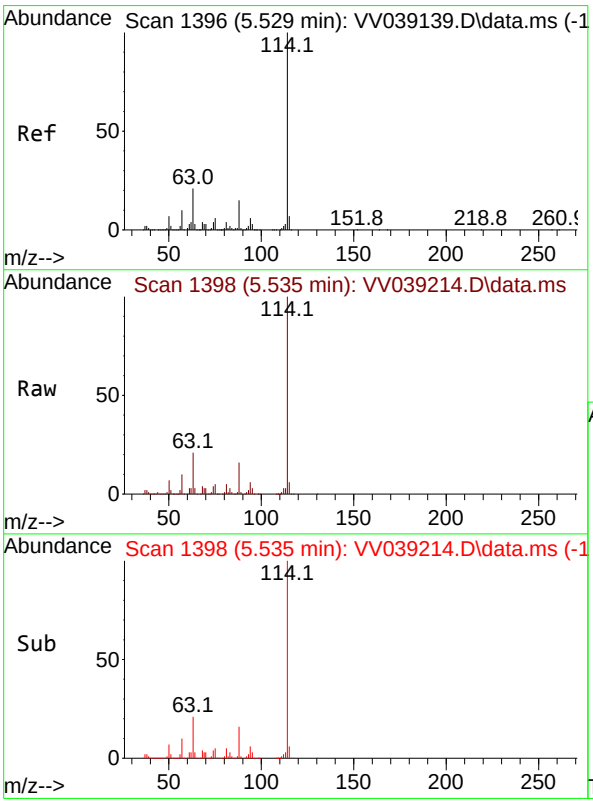
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	107.0



Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

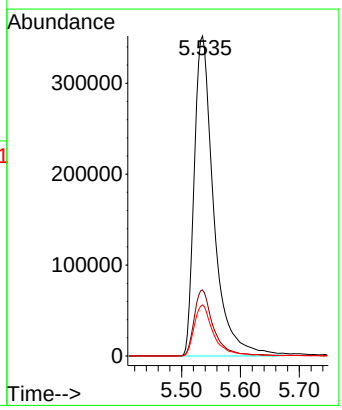
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

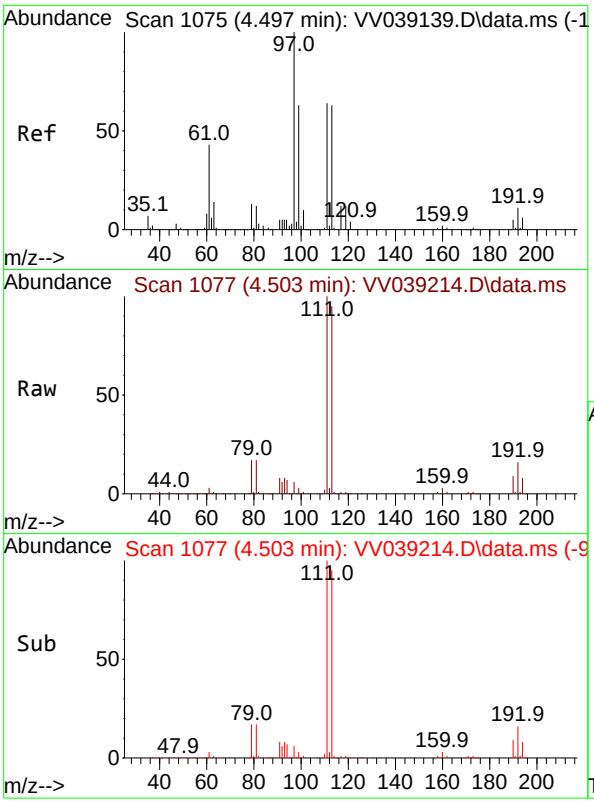


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:114 Resp: 811223

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	42.6
88	16.0	0.0	30.8

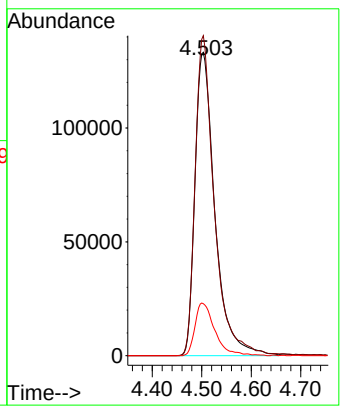




#35
Dibromofluoromethane
Concen: 57.286 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:113 Resp: 37359

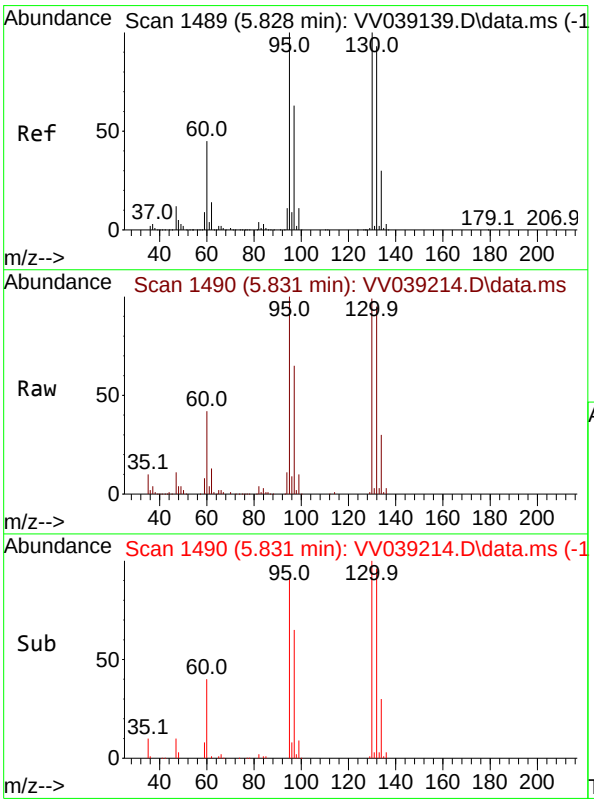
Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.4	123.6
192	17.0	13.8	20.8



Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

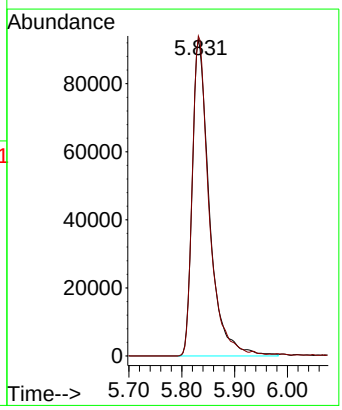
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

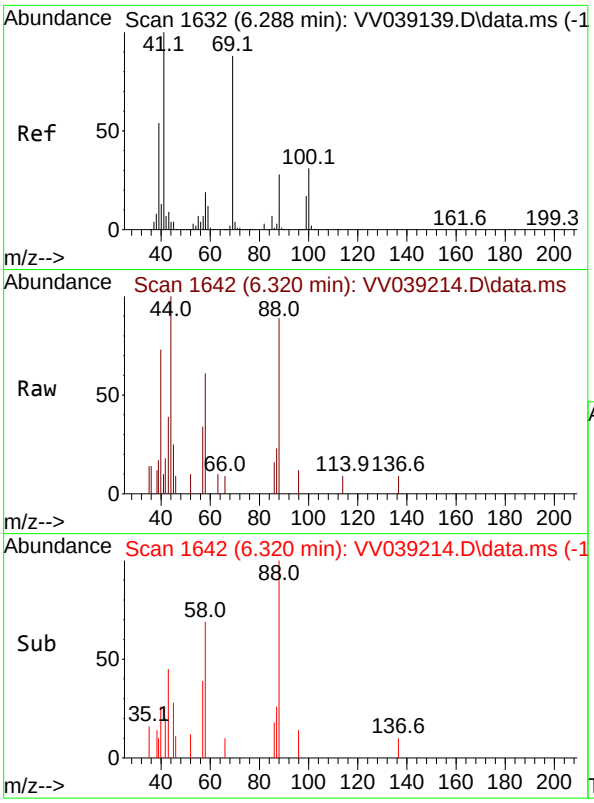


#44
Trichloroethene
Concen: 28.275 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:130 Resp: 209487

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	199.2





#49
1,4-Dioxane
Concen: 40.080 ug/l m
RT: 6.320 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

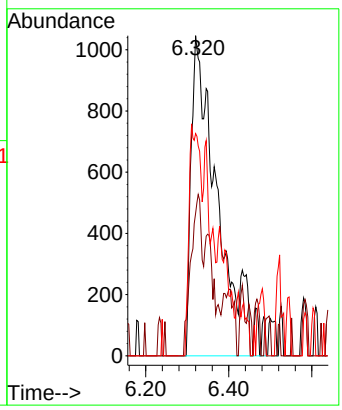
Tgt Ion: 88 Resp: 478

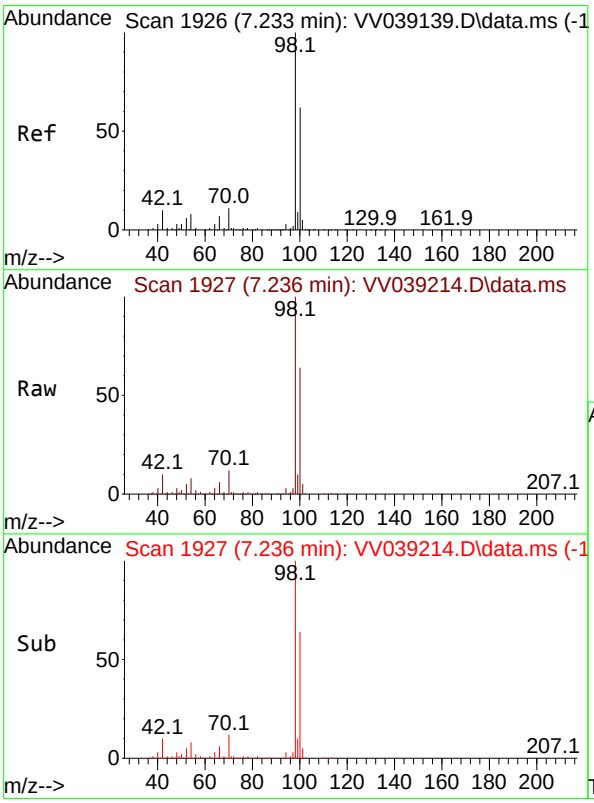
Ion	Ratio	Lower	Upper
88	100		
43	20.4	25.1	37.7#
58	14.7	53.6	80.4#

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

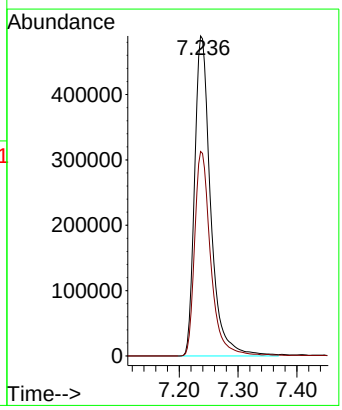


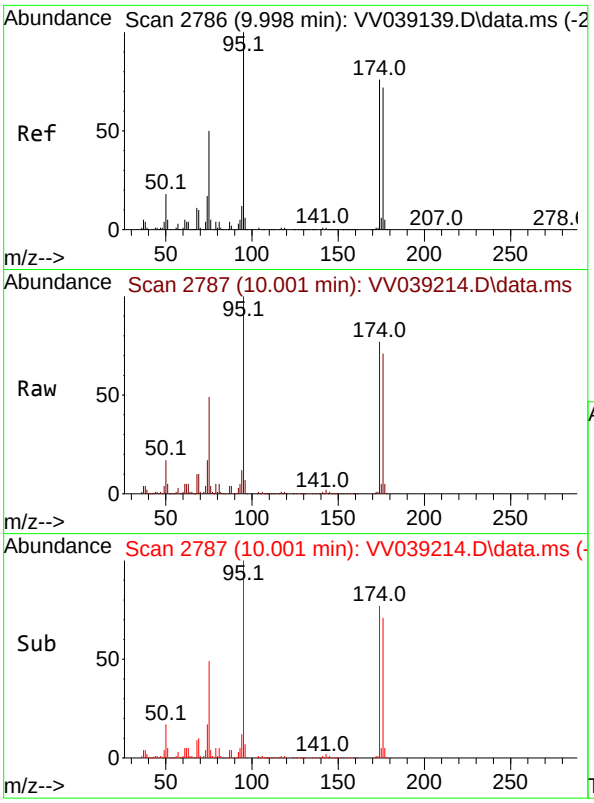


#50
Toluene-d8
Concen: 48.440 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 98 Resp: 927814

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.2	78.2

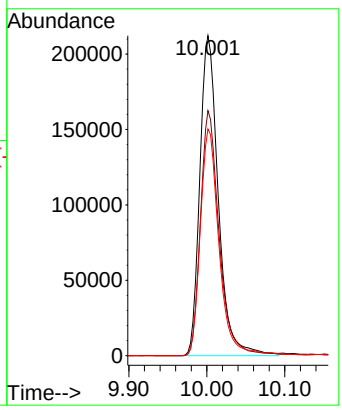




#62
4-Bromofluorobenzene
Concen: 44.403 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 95 Resp: 35012

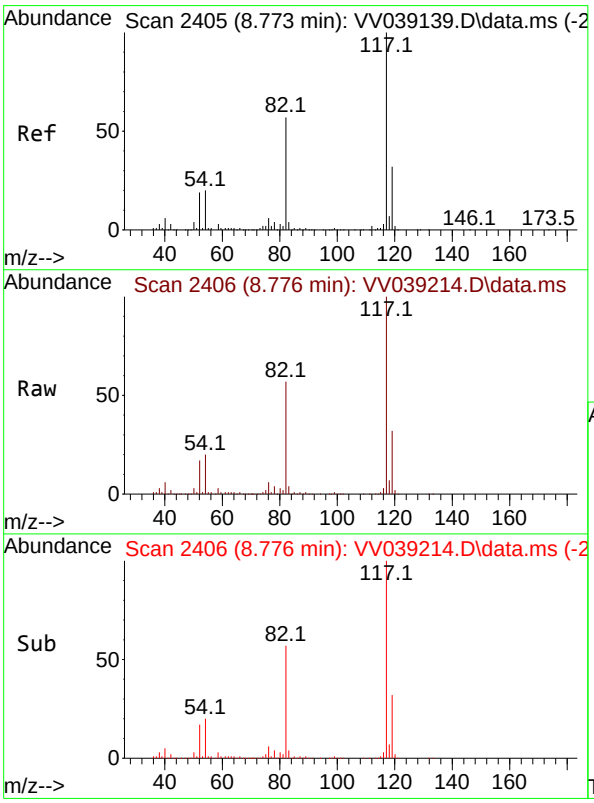
Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	150.4
176	71.1	0.0	144.2



Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

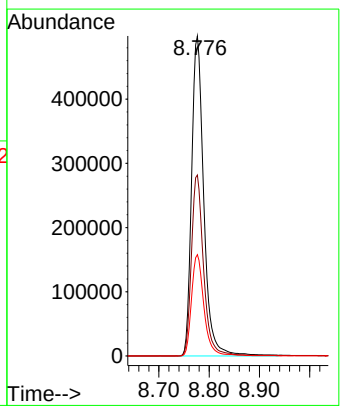
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

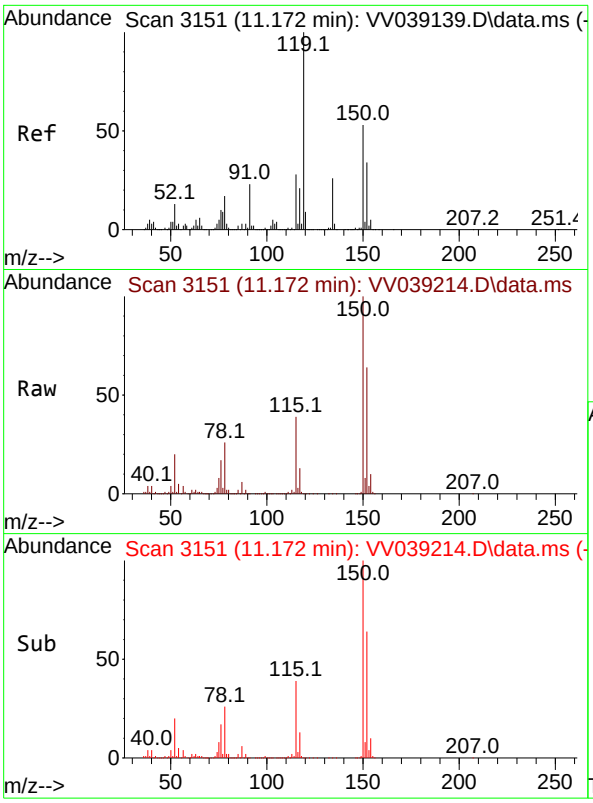


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:117 Resp: 838423

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.4	68.2
119	31.6	25.6	38.4

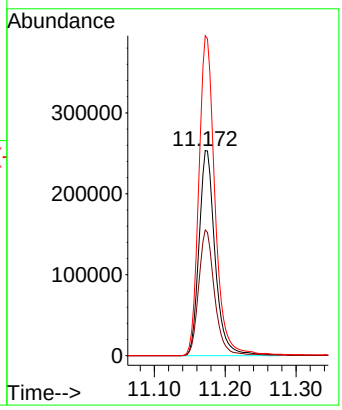




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:152 Resp: 39997

Ion	Ratio	Lower	Upper
152	100		
115	60.8	44.8	134.4
150	155.5	0.0	353.8



Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039214.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.098	13	18	39	rVB	127234	178492	2.01%	0.702%
2	1.915	262	272	292	rBV	134497	253579	2.86%	0.998%
3	2.082	310	324	362	rBV	4313191	8860623	100.00%	34.865%
4	3.124	635	648	680	rVB3	37352	121456	1.37%	0.478%
5	4.503	1055	1077	1096	rBV2	462416	1252894	14.14%	4.930%
6	4.600	1096	1107	1147	rVB2	523315	1455024	16.42%	5.725%
7	4.941	1202	1213	1249	rBV	447677	1107658	12.50%	4.358%
8	5.535	1383	1398	1437	rBV	834367	1959033	22.11%	7.708%
9	5.831	1478	1490	1520	rBV2	517547	1126172	12.71%	4.431%
10	7.236	1916	1927	1971	rBV	1263996	2429374	27.42%	9.559%
11	8.776	2392	2406	2439	rBV	1473949	2529046	28.54%	9.951%
12	10.001	2775	2787	2819	rBV	1016591	1723633	19.45%	6.782%
13	11.172	3139	3151	3182	rBV	1525058	2417079	27.28%	9.511%

Sum of corrected areas: 25414063

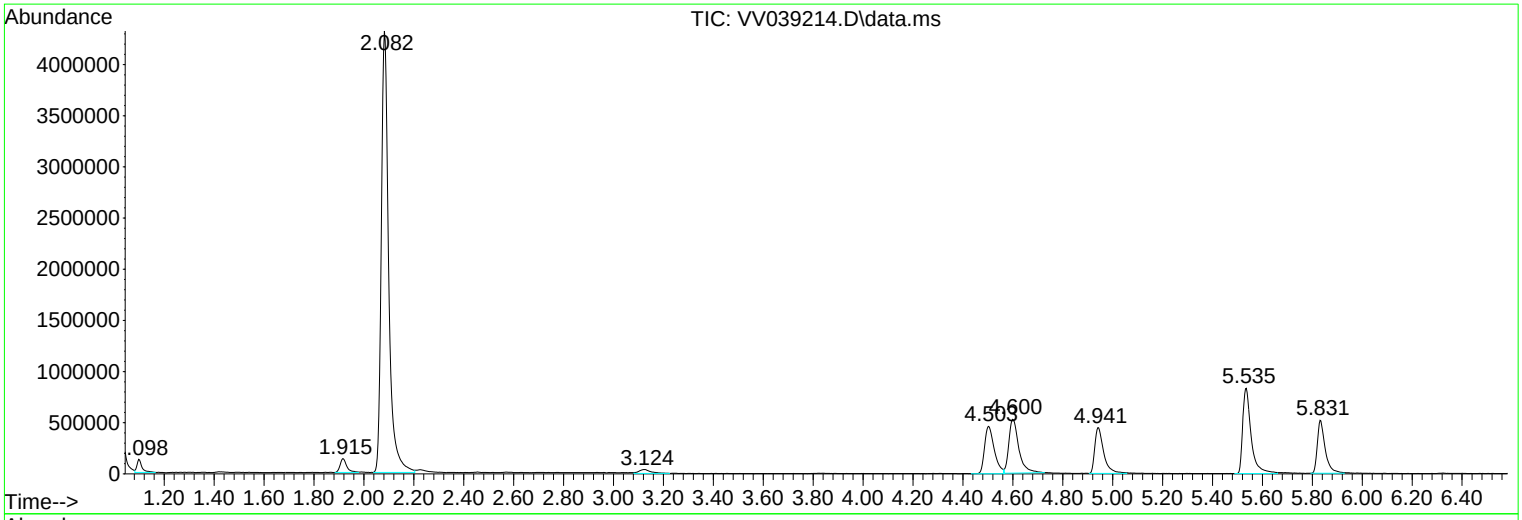
Sample Results: **VV039214.D**

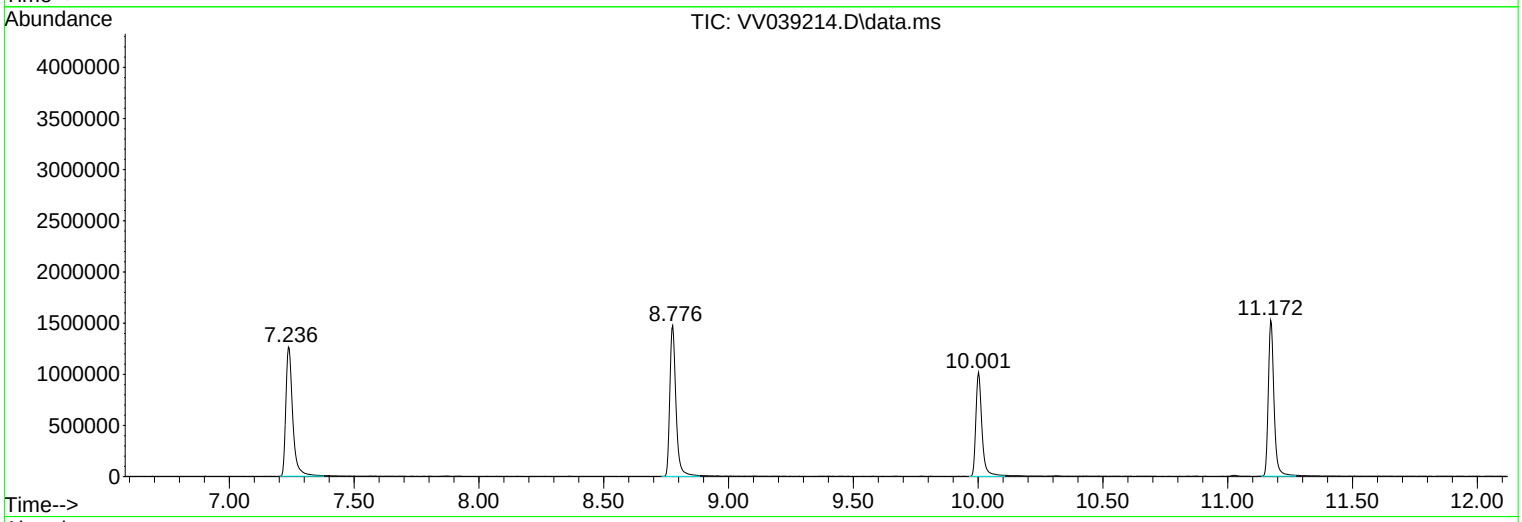
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

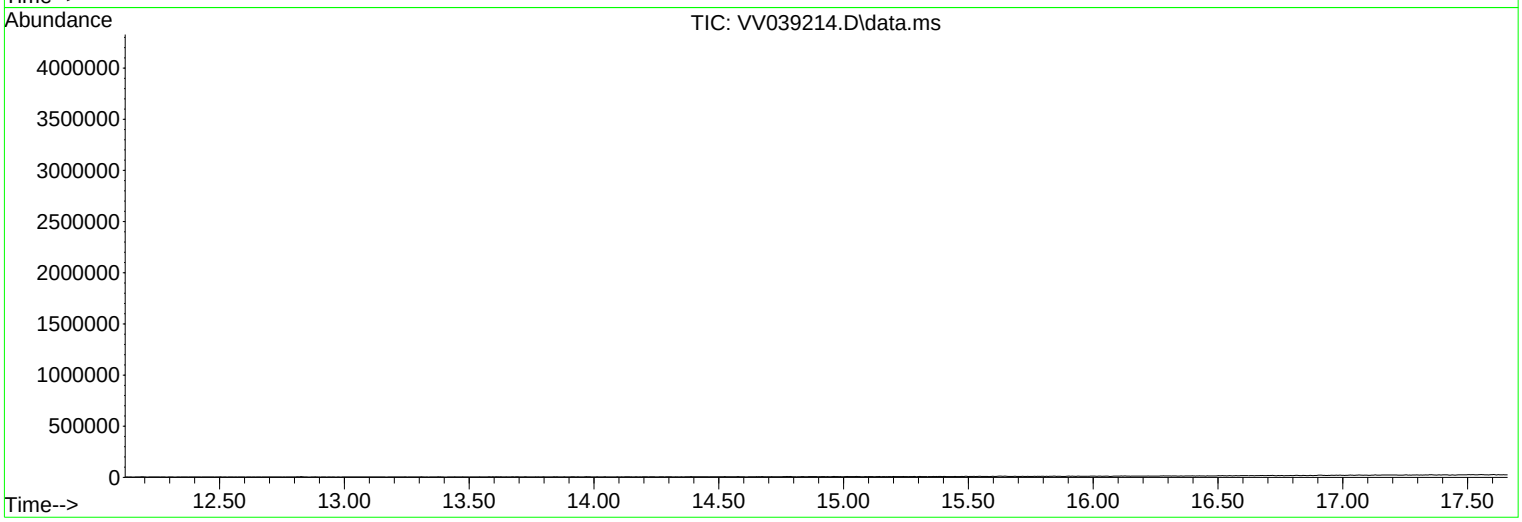
Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

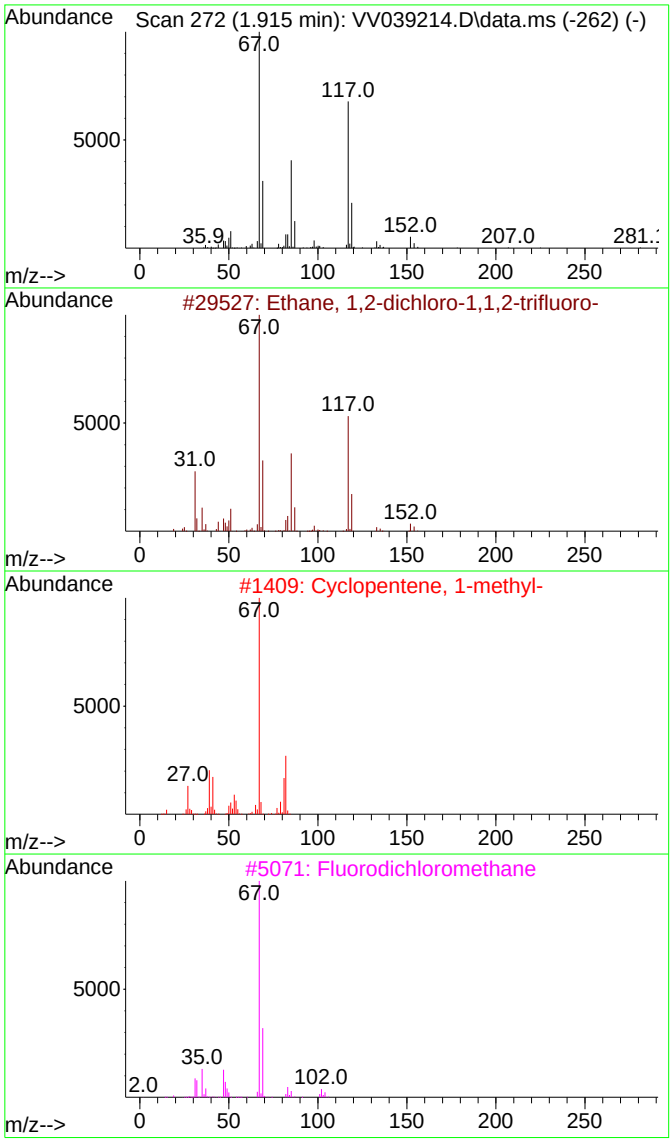
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

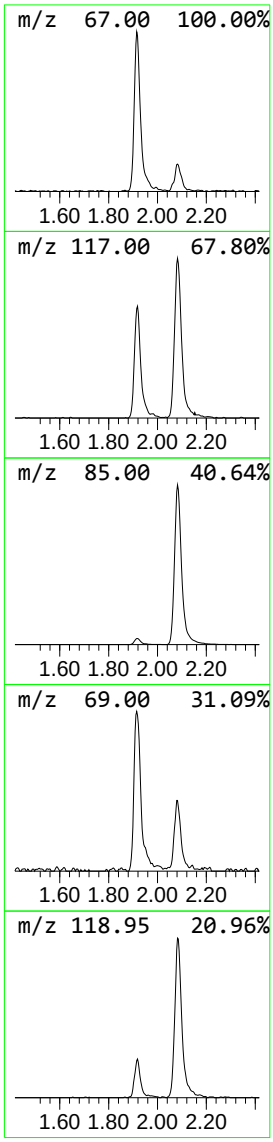
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.915	8.71 ug/l	253579	Pentafluorobenzene	4.603

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2-dichloro-1,1,2-trifl...	152	C2HCl2F3	000354-23-4	90
2	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	27
3	Fluorodichloromethane	102	CHCl2F	000075-43-4	17
4	1-Butyne, 3,3-dimethyl-	82	C6H10	000917-92-0	16
5	1,4-Pentadiene, 3-methyl-	82	C6H10	001115-08-8	16





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethane, 1,2-dic...	1.915	8.7	ug/l	253579	1	4.603	1455020	50.0

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31S-091825DL	SDG No.:	Q3195
Lab Sample ID:	Q3195-15DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039226.D	5	09/29/25 13:08	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	UD	1.10	5.00	ug/L
74-87-3	Chloromethane	1.60	UD	1.60	5.00	ug/L
75-01-4	Vinyl Chloride	1.30	UD	1.30	5.00	ug/L
74-83-9	Bromomethane	7.20	UD	7.20	25.0	ug/L
75-00-3	Chloroethane	2.40	UD	2.40	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.70	UD	1.70	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	220	D	1.30	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.20	UD	1.20	5.00	ug/L
67-64-1	Acetone	7.60	UD	7.60	25.0	ug/L
75-15-0	Carbon Disulfide	1.10	UD	1.10	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.80	UD	0.80	5.00	ug/L
79-20-9	Methyl Acetate	1.40	UD	1.40	5.00	ug/L
75-09-2	Methylene Chloride	1.40	UD	1.40	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.20	UD	1.20	5.00	ug/L
75-34-3	1,1-Dichloroethane	1.20	UD	1.20	5.00	ug/L
110-82-7	Cyclohexane	7.30	UD	7.30	25.0	ug/L
78-93-3	2-Butanone	4.90	UD	4.90	25.0	ug/L
56-23-5	Carbon Tetrachloride	1.30	UD	1.30	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.95	UD	0.95	5.00	ug/L
74-97-5	Bromochloromethane	1.10	UD	1.10	5.00	ug/L
67-66-3	Chloroform	1.30	UD	1.30	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	UD	1.00	5.00	ug/L
108-87-2	Methylcyclohexane	0.80	UD	0.80	5.00	ug/L
71-43-2	Benzene	0.75	UD	0.75	5.00	ug/L
107-06-2	1,2-Dichloroethane	1.10	UD	1.10	5.00	ug/L
79-01-6	Trichloroethene	25.1	D	0.47	5.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	UD	1.00	5.00	ug/L
75-27-4	Bromodichloromethane	1.10	UD	1.10	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.40	UDQ	3.40	25.0	ug/L
108-88-3	Toluene	0.70	UDQ	0.70	5.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31S-091825DL	SDG No.:	Q3195
Lab Sample ID:	Q3195-15DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039226.D	5	09/29/25 13:08	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.85	UD	0.85	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.80	UD	0.80	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.10	UD	1.10	5.00	ug/L
591-78-6	2-Hexanone	4.50	UD	4.50	25.0	ug/L
124-48-1	Dibromochloromethane	0.90	UD	0.90	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.75	UDQ	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	1.20	UD	1.20	5.00	ug/L
108-90-7	Chlorobenzene	0.60	UD	0.60	5.00	ug/L
100-41-4	Ethyl Benzene	0.65	UD	0.65	5.00	ug/L
179601-23-1	m/p-Xylenes	1.20	UDQ	1.20	10.0	ug/L
95-47-6	o-Xylene	0.60	UD	0.60	5.00	ug/L
100-42-5	Styrene	0.75	UD	0.75	5.00	ug/L
75-25-2	Bromoform	0.95	UDQ	0.95	5.00	ug/L
98-82-8	Isopropylbenzene	0.60	UD	0.60	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.30	UD	1.30	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.80	UD	0.80	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	UD	0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.80	UD	0.80	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	2.70	UD	2.70	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	UD	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	UD	1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	45.0		86 - 113	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	520000	4.6			
540-36-3	1,4-Difluorobenzene	886000	5.535			
3114-55-4	Chlorobenzene-d5	868000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	445000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31S-091825DL	SDG No.:	Q3195
Lab Sample ID:	Q3195-15DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039226.D	5	09/29/25 13:08	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039226.D
Acq On : 29 Sep 2025 13:08
Operator : SY/MD
Sample : Q3195-15DL 5X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825DL

Quant Time: Sep 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

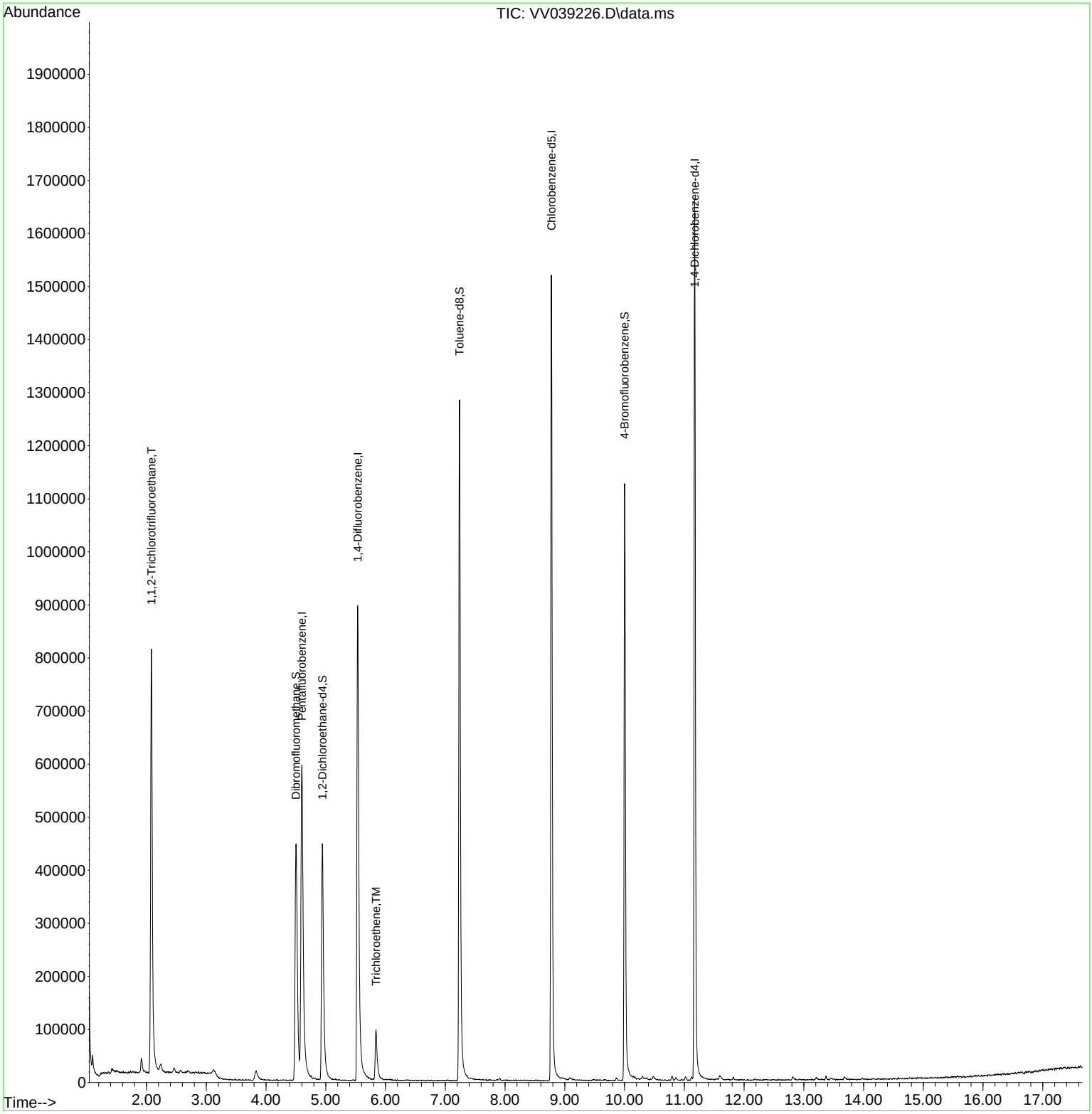
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	520194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	885532	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	868036	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	445110	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	388329	51.579	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 103.160%			
35) Dibromofluoromethane	4.503	113	372446	52.317	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 104.640%			
50) Toluene-d8	7.239	98	941881	45.048	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.100%			
62) 4-Bromofluorobenzene	10.001	95	384328	44.651	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.300%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.082	101	357606	43.863	ug/l	96
44) Trichloroethene	5.841	130	40560	5.015	ug/l	90

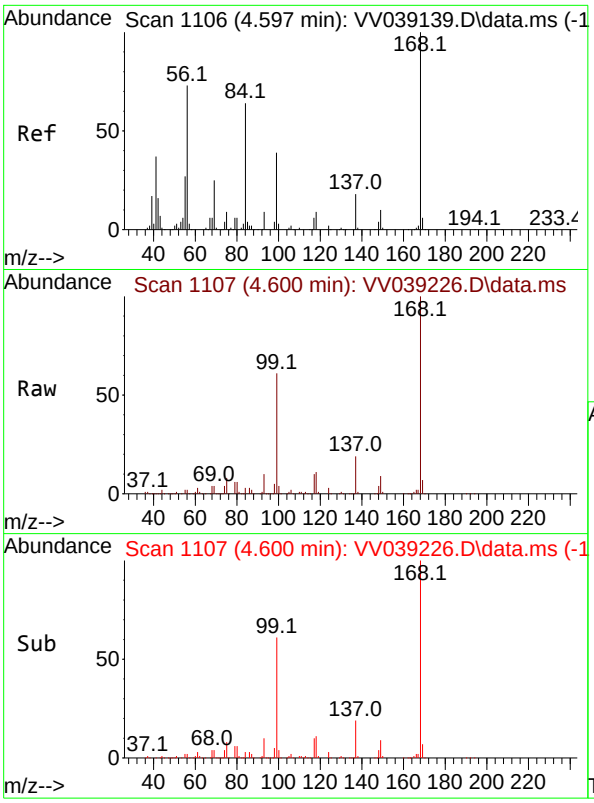
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039226.D
Acq On : 29 Sep 2025 13:08
Operator : SY/MD
Sample : Q3195-15DL 5X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825DL

Quant Time: Sep 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



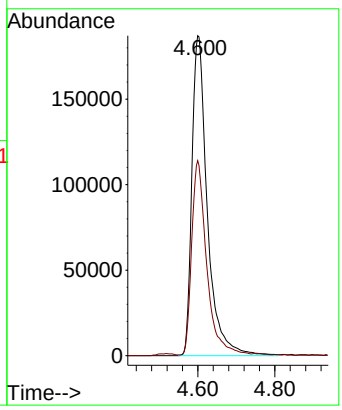


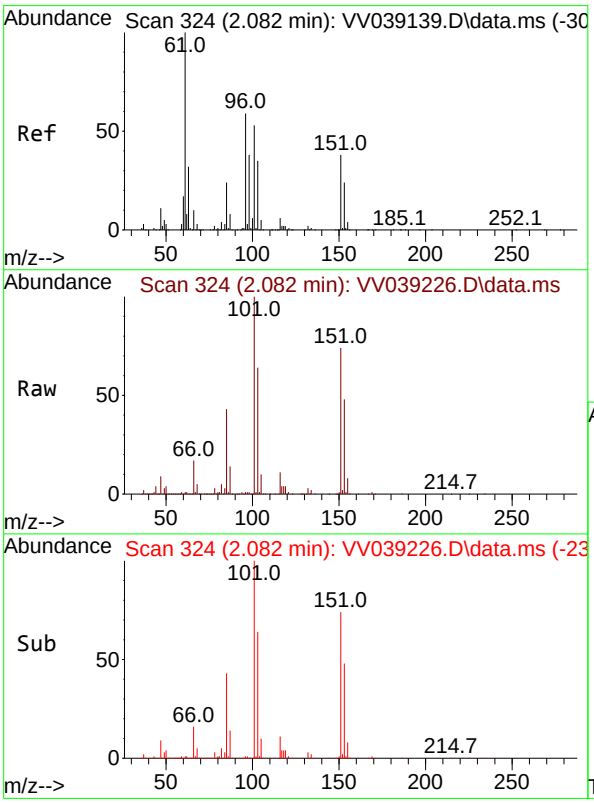
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825DL

Tgt Ion:168 Resp: 520194

Ion	Ratio	Lower	Upper
168	100		
99	60.7	49.6	74.4

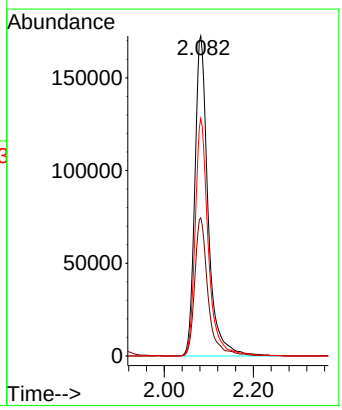


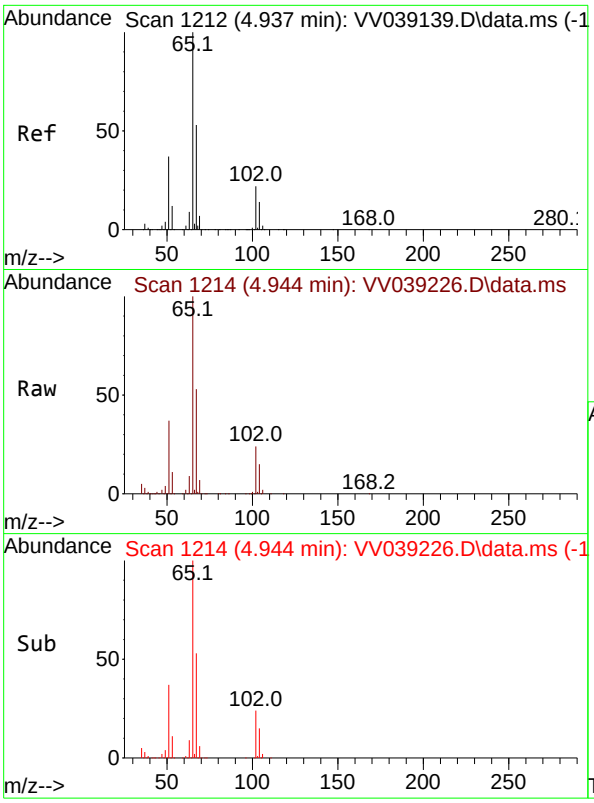


#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.863 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:101 Resp: 357606

Ion	Ratio	Lower	Upper
101	100		
85	43.3	36.2	54.2
151	73.8	56.3	84.5



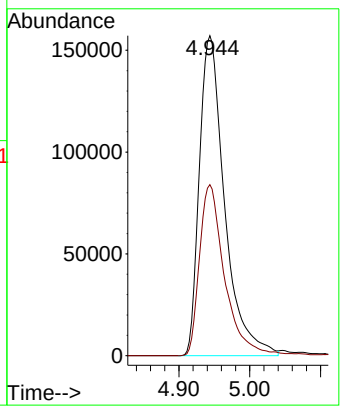


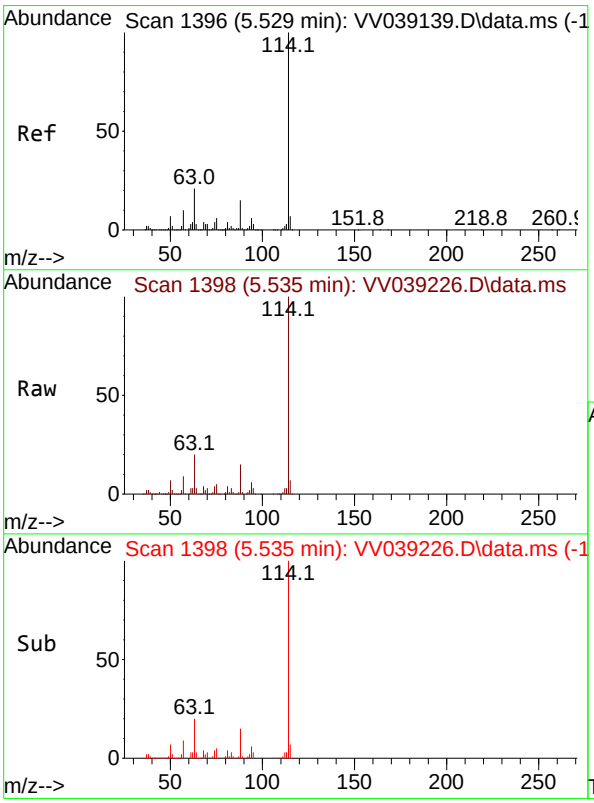
#33
1,2-Dichloroethane-d4
Concen: 51.579 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825DL

Tgt Ion: 65 Resp: 388329

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	107.0

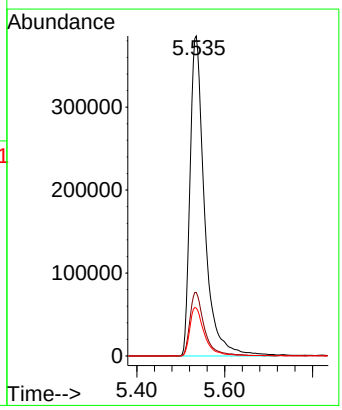


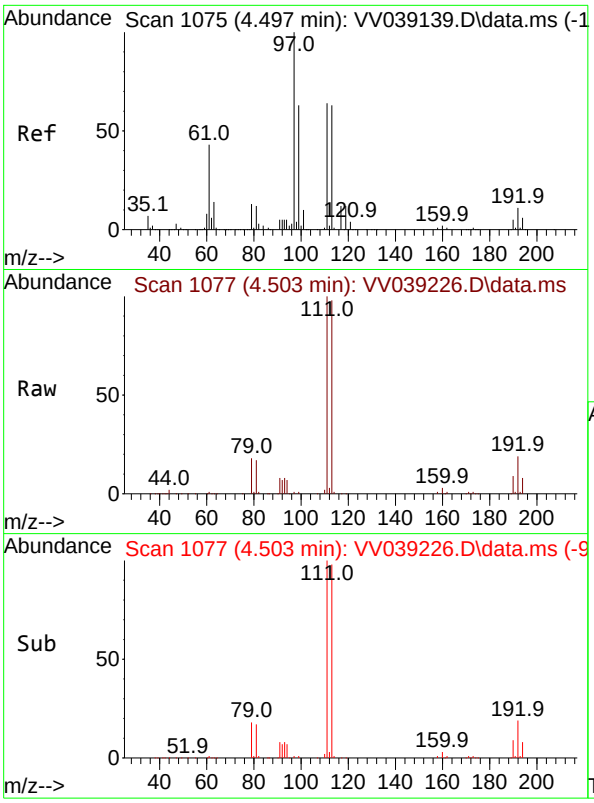


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:114 Resp: 885532

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	42.6
88	15.0	0.0	30.8



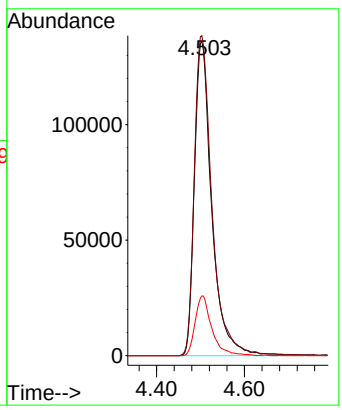


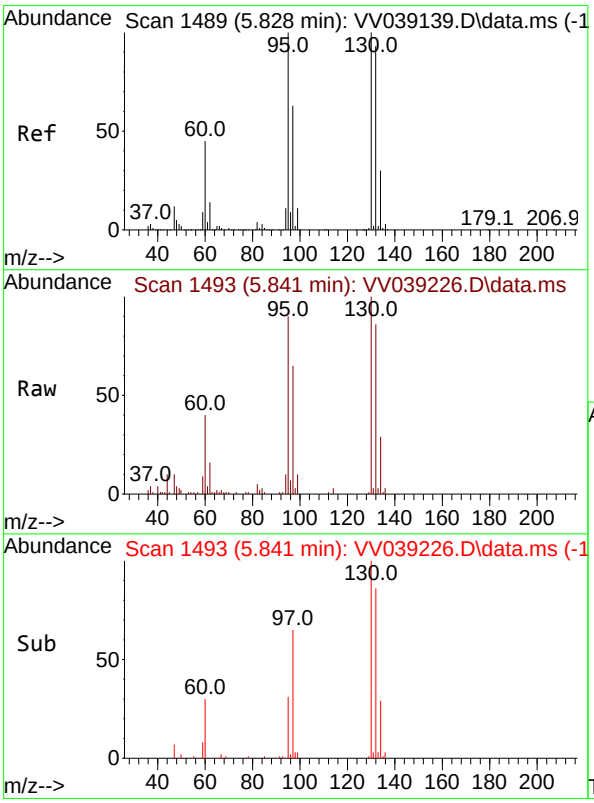
#35
Dibromofluoromethane
Concen: 52.317 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825DL

Tgt Ion:113 Resp: 372446

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.4	123.6
192	18.3	13.8	20.8

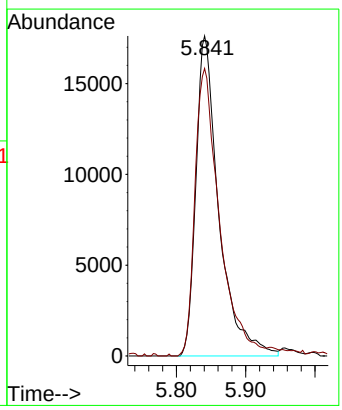


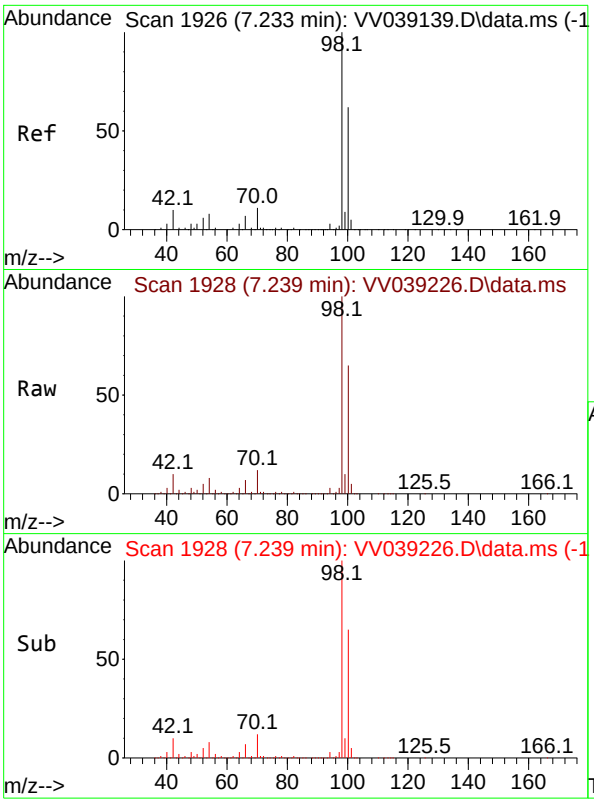


#44
Trichloroethene
Concen: 5.015 ug/l
RT: 5.841 min Scan# 1493
Delta R.T. 0.013 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:130 Resp: 40560

Ion	Ratio	Lower	Upper
130	100		
95	89.9	0.0	199.2



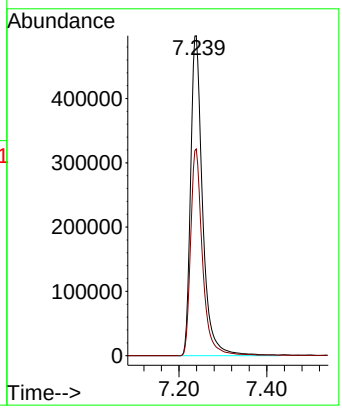


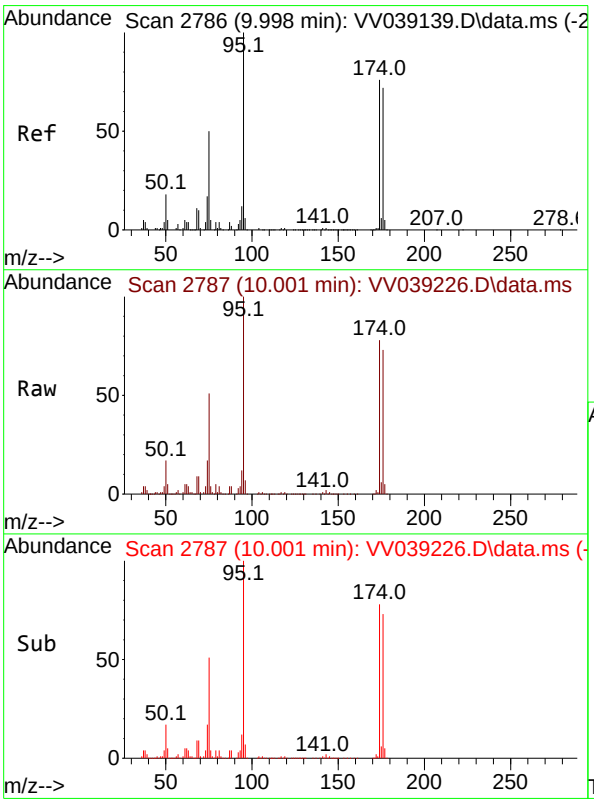
#50
Toluene-d8
Concen: 45.048 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825DL

Tgt Ion: 98 Resp: 941881

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2

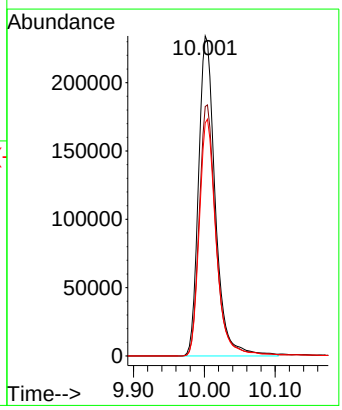


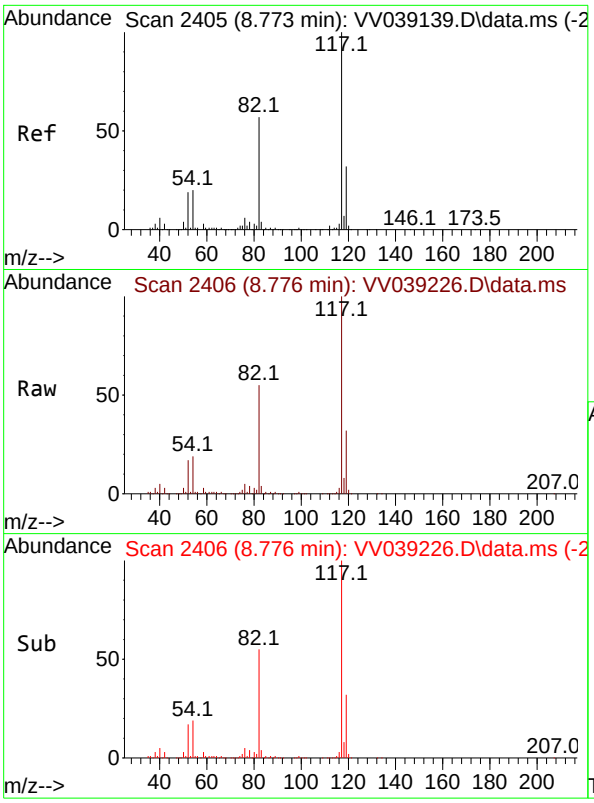


#62
4-Bromofluorobenzene
Concen: 44.651 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 95 Resp: 384328

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	150.4
176	74.1	0.0	144.2



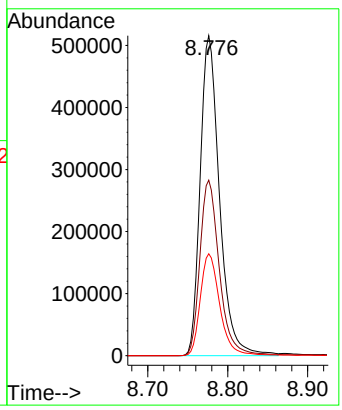


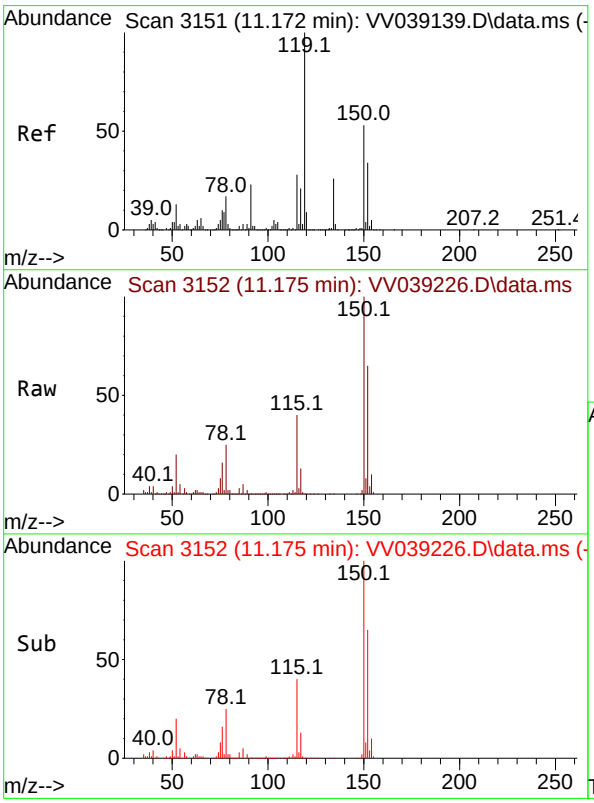
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Instrument :
MSVOA_V
ClientSampleId :
MW-31S-091825DL

Tgt Ion:117 Resp: 868036

Ion	Ratio	Lower	Upper
117	100		
82	54.9	45.4	68.2
119	31.9	25.6	38.4

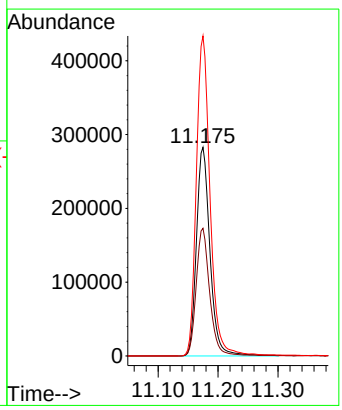




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:152 Resp: 445110

Ion	Ratio	Lower	Upper
152	100		
115	61.1	44.8	134.4
150	154.6	0.0	353.8



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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039215.D	1	09/26/25 16:05	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2300	E	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.2		0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	8.90		0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.79	J	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	8.20		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	270	E	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039215.D	1	09/26/25 16:05	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	J	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.0		74 - 125	118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	48.2		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	523000	4.6			
540-36-3	1,4-Difluorobenzene	967000	5.535			
3114-55-4	Chlorobenzene-d5	981000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	470000	11.175			
TENTATIVE IDENTIFIED COMPOUNDS						

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825	SDG No.:	Q3195
Lab Sample ID:	Q3195-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039215.D	1	09/26/25 16:05	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluo	190	J		1.92	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Quant Time: Sep 29 07:52:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

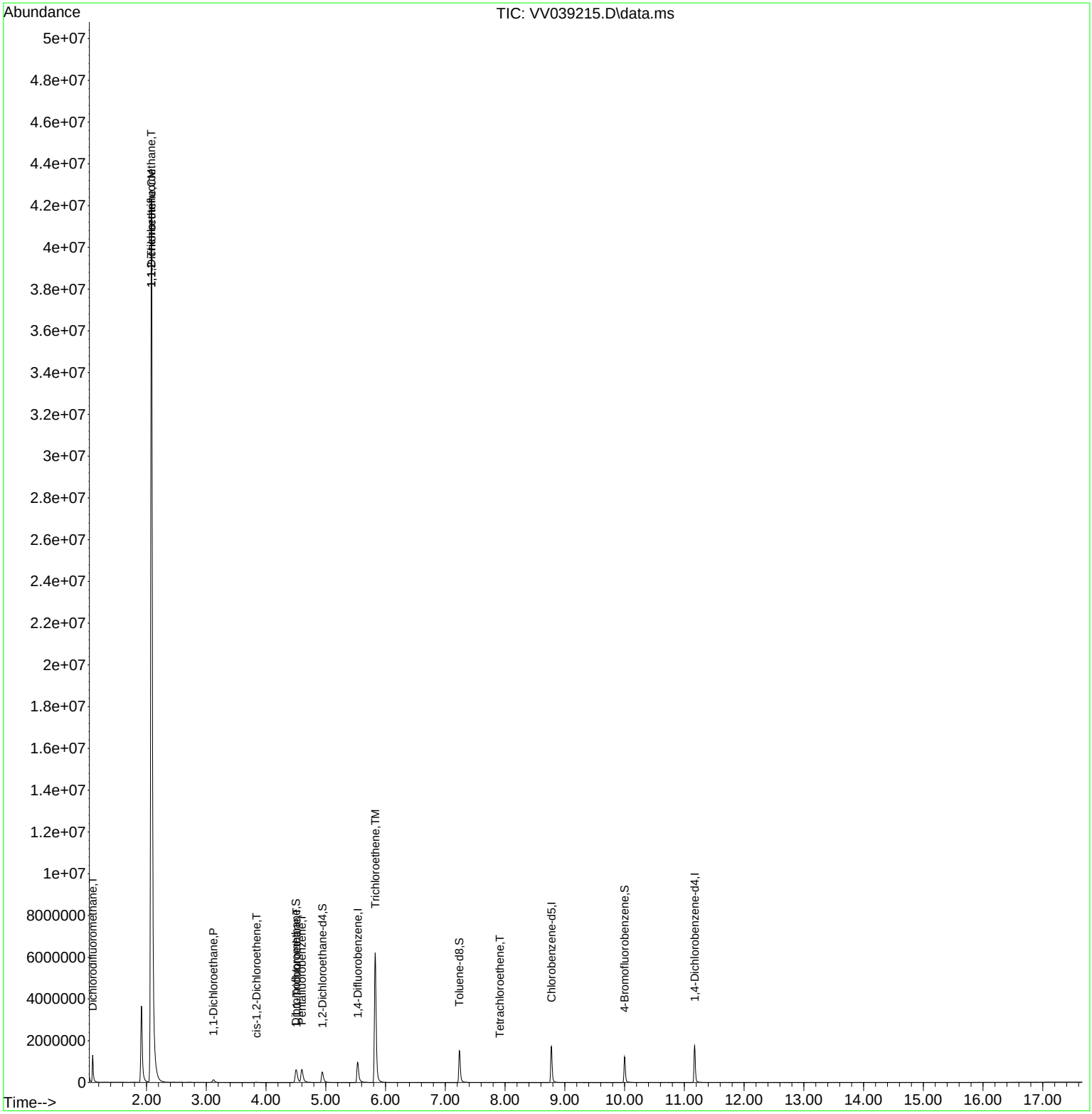
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	523421	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	967034	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	980974	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	469900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	446631	58.958	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 117.920%			
35) Dibromofluoromethane	4.500	113	425088	54.680	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 109.360%			
50) Toluene-d8	7.236	98	1101338	48.235	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 96.460%			
62) 4-Bromofluorobenzene	10.001	95	412962	43.934	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.098	85	167927	20.267	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.079	101	18545285	2260.702	ug/l	98
12) 1,1-Dichloroethene	2.082	96	135533	17.174	ug/l #	74
24) 1,1-Dichloroethane	3.121	63	146490	8.881	ug/l	99
27) cis-1,2-Dichloroethene	3.841	96	7318	0.790	ug/l	70
32) 1,1,1-Trichloroethane	4.513	97	121865	8.173	ug/l	97
44) Trichloroethene	5.828	130	2364403	267.708	ug/l	98
64) Tetrachloroethene	7.911	164	2084	0.254	ug/l	89

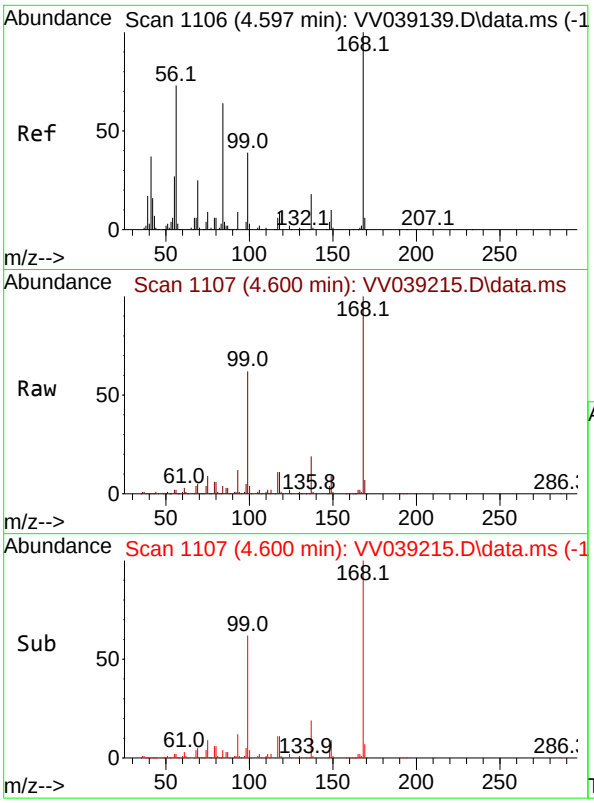
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Quant Time: Sep 29 07:52:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



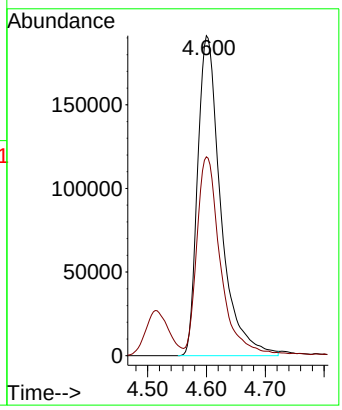


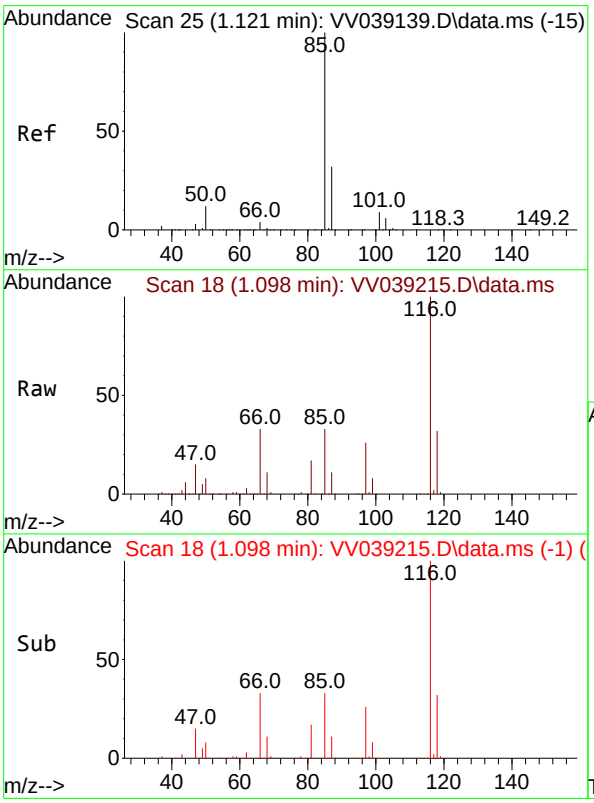
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion:168 Resp: 523421

Ion	Ratio	Lower	Upper
168	100		
99	61.2	49.6	74.4

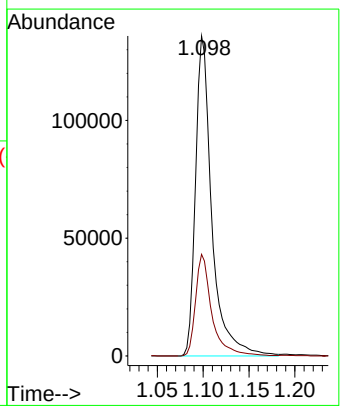


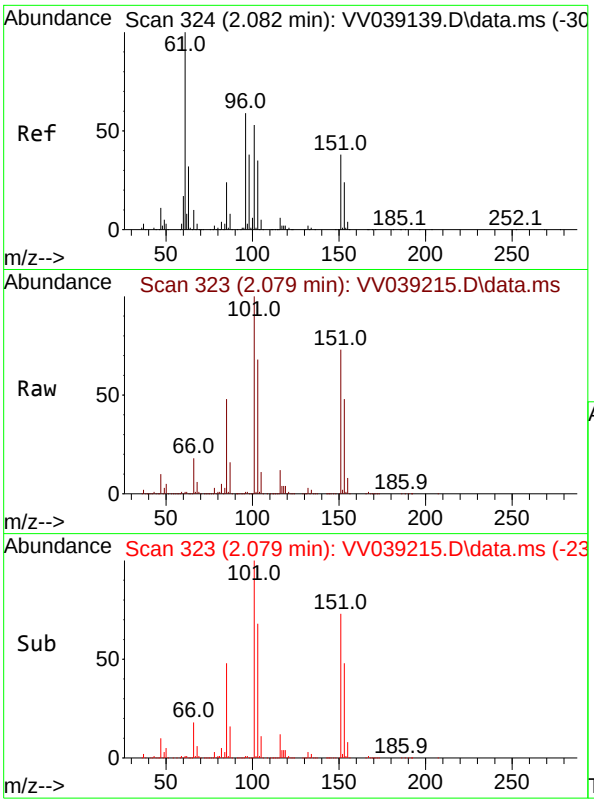


#2
Dichlorodifluoromethane
Concen: 20.267 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 85 Resp: 167927

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.0	47.9



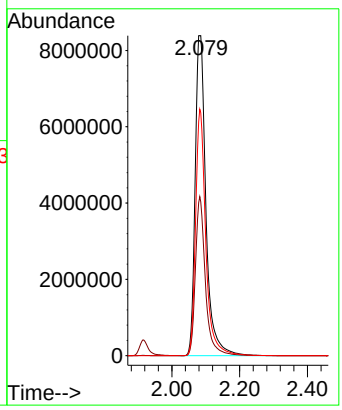


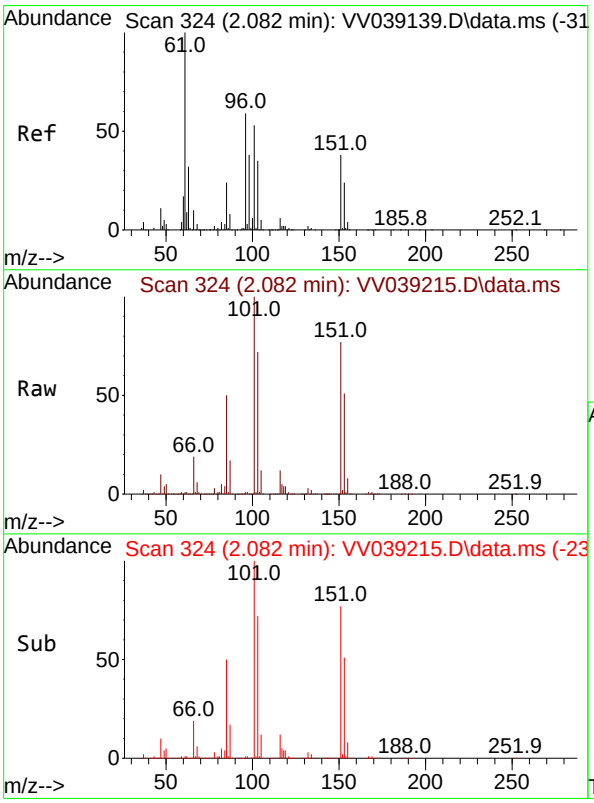
#9
1,1,2-Trichlorotrifluoroethane
Concen: 2260.702 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion:101 Resp:18545285

Ion	Ratio	Lower	Upper
101	100		
85	45.9	36.2	54.2
151	73.1	56.3	84.5

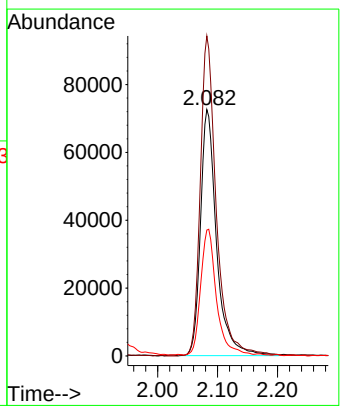


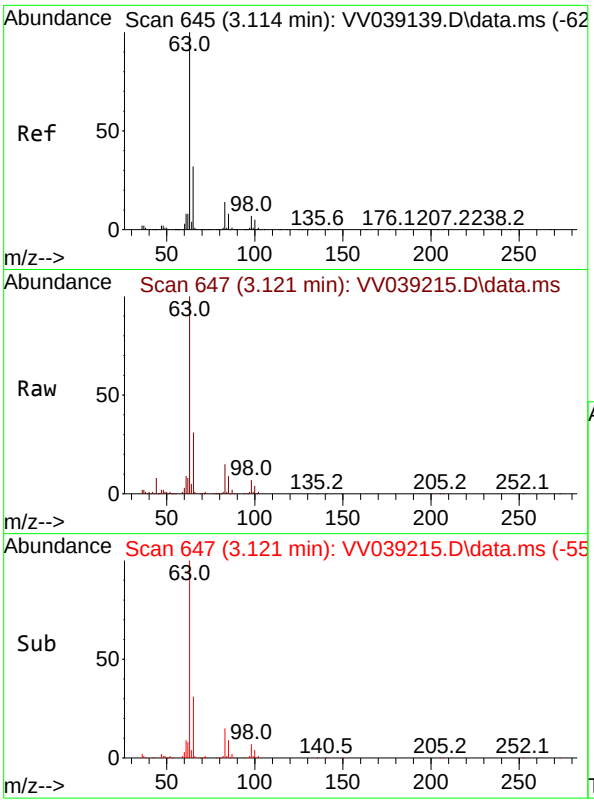


#12
1,1-Dichloroethene
Concen: 17.174 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 96 Resp: 135533

Ion	Ratio	Lower	Upper
96	100		
61	130.1	136.0	204.0#
98	50.7	51.0	76.6#



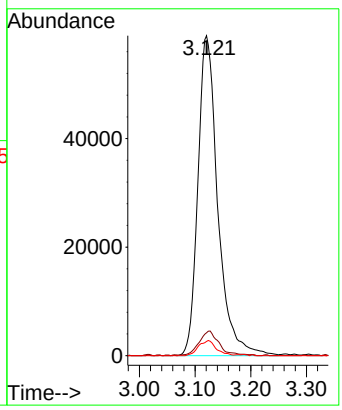


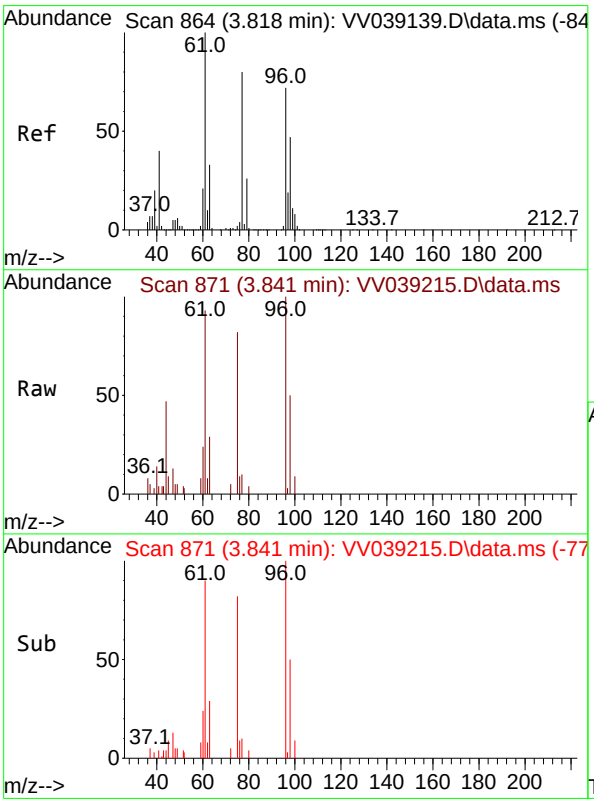
#24
1,1-Dichloroethane
Concen: 8.881 ug/l
RT: 3.121 min Scan# 64
Delta R.T. 0.006 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion: 63 Resp: 146490

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.4	10.2
100	4.5	2.2	6.6

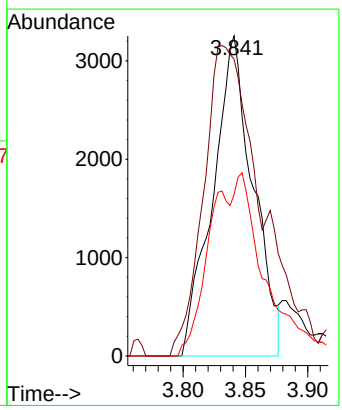


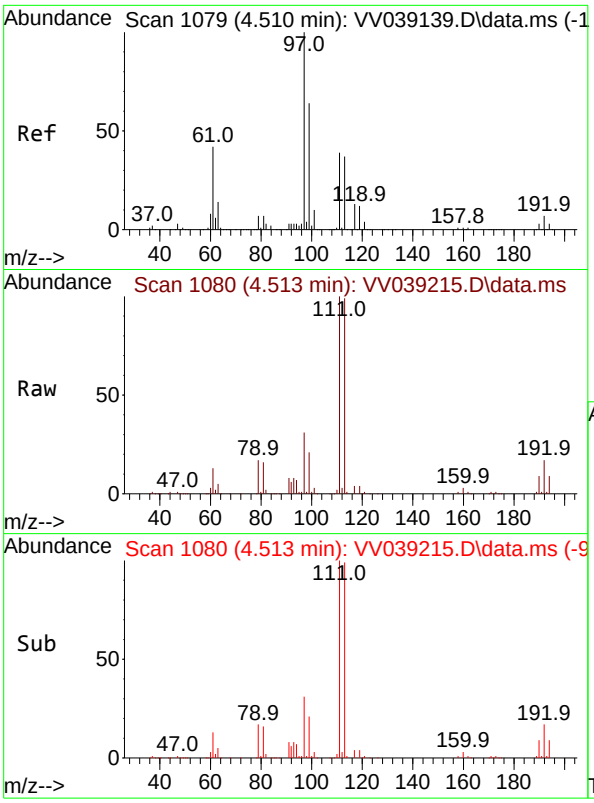


#27
cis-1,2-Dichloroethene
Concen: 0.790 ug/l
RT: 3.841 min Scan# 871
Delta R.T. 0.022 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 96 Resp: 7318

Ion	Ratio	Lower	Upper
96	100		
61	112.0	0.0	286.4
98	32.4	0.0	126.6



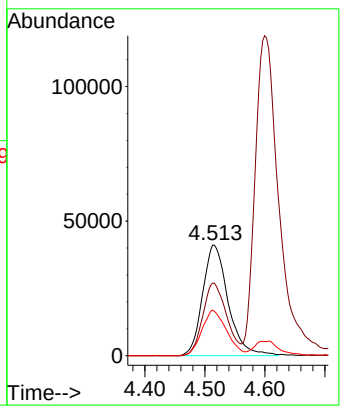


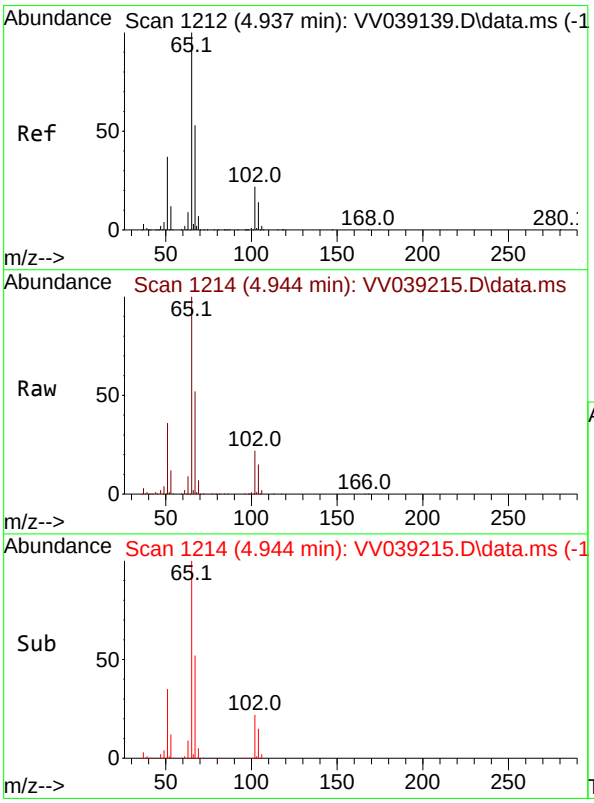
#32
1,1,1-Trichloroethane
Concen: 8.173 ug/l
RT: 4.513 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion: 97 Resp: 121865

Ion	Ratio	Lower	Upper
97	100		
99	61.4	49.6	74.4
61	39.8	34.5	51.7

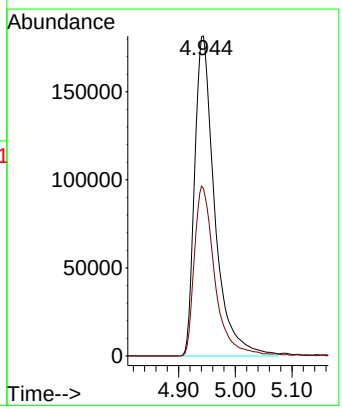


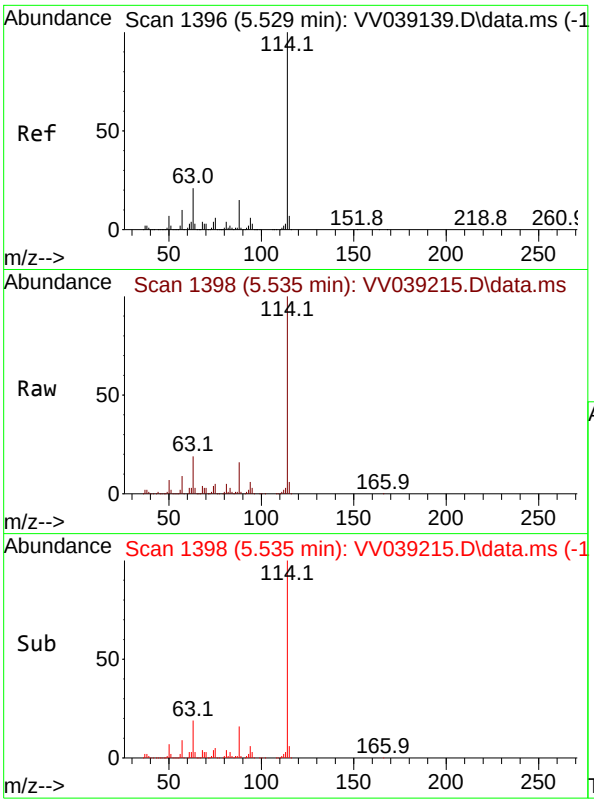


#33
1,2-Dichloroethane-d4
Concen: 58.958 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 65 Resp: 446631

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	107.0



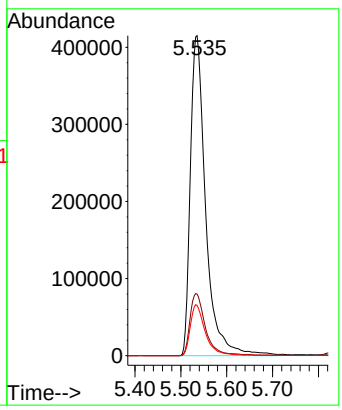


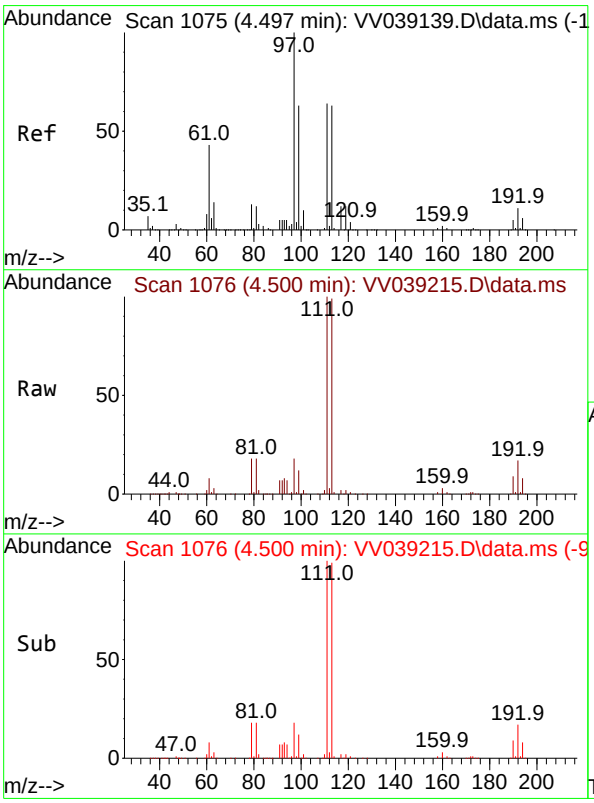
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion:114 Resp: 967034

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	42.6
88	15.7	0.0	30.8

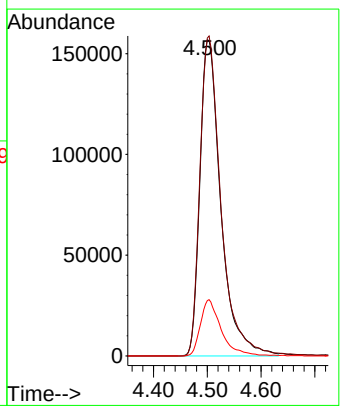


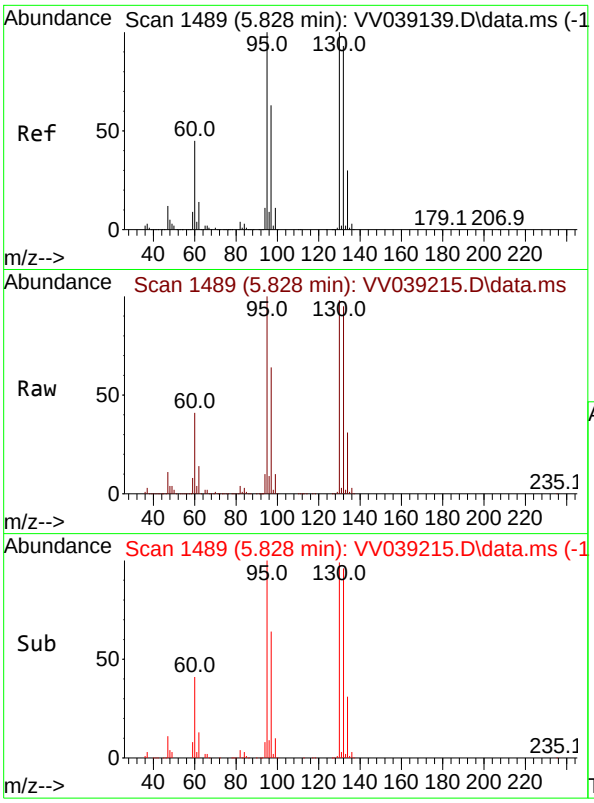


#35
Dibromofluoromethane
Concen: 54.680 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion:113 Resp: 425088

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.4	123.6
192	17.5	13.8	20.8



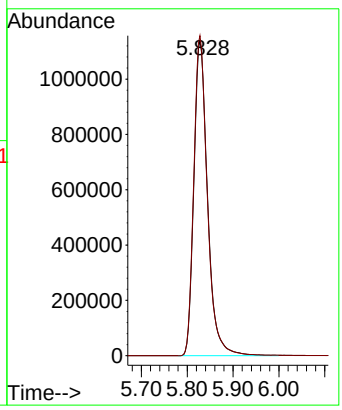


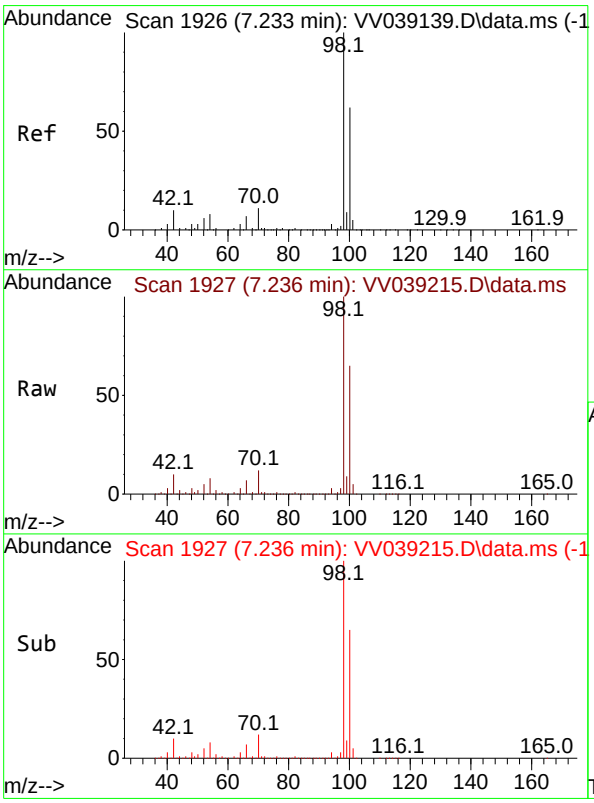
#44
Trichloroethene
Concen: 267.708 ug/l
RT: 5.828 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion:130 Resp: 2364403

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	199.2

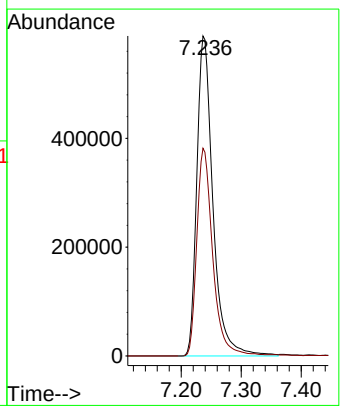


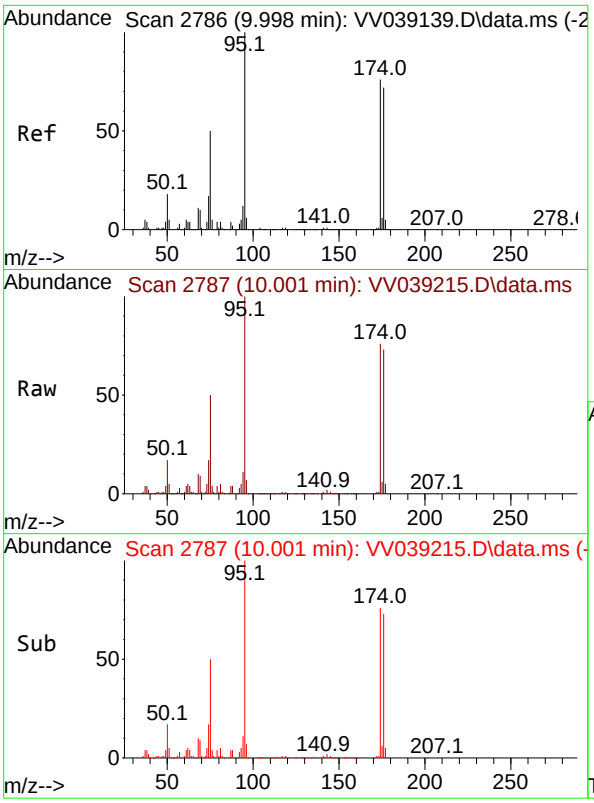


#50
Toluene-d8
Concen: 48.235 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 98 Resp: 1101338

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.2



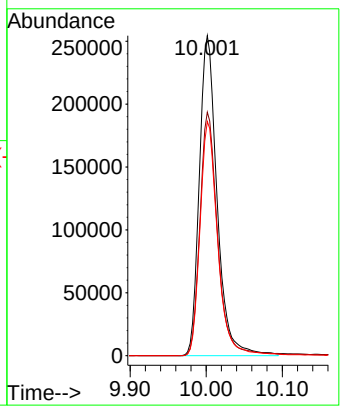


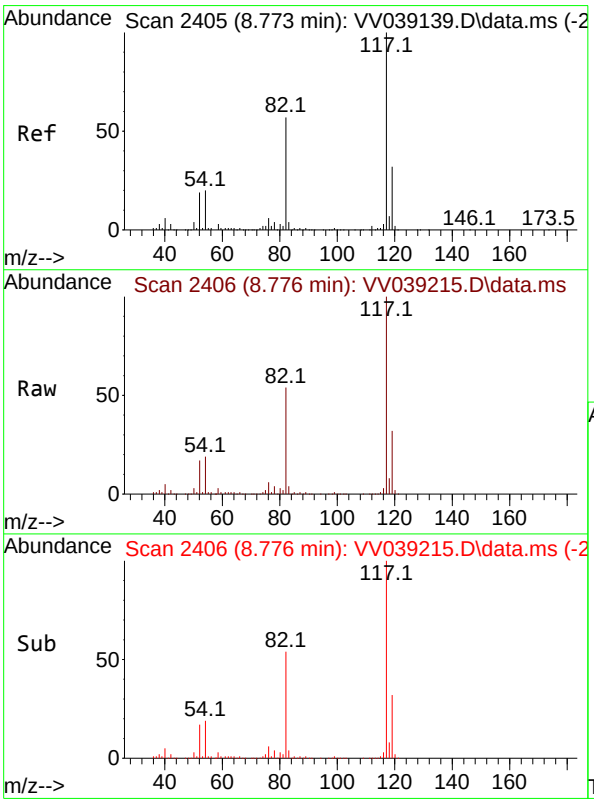
#62
4-Bromofluorobenzene
Concen: 43.934 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion: 95 Resp: 412962

Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	150.4
176	72.9	0.0	144.2

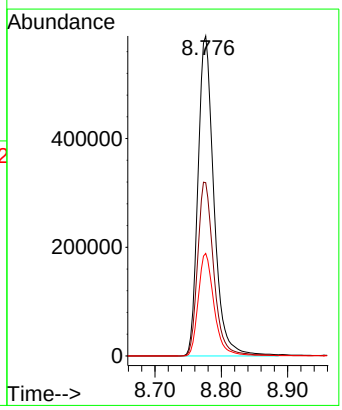


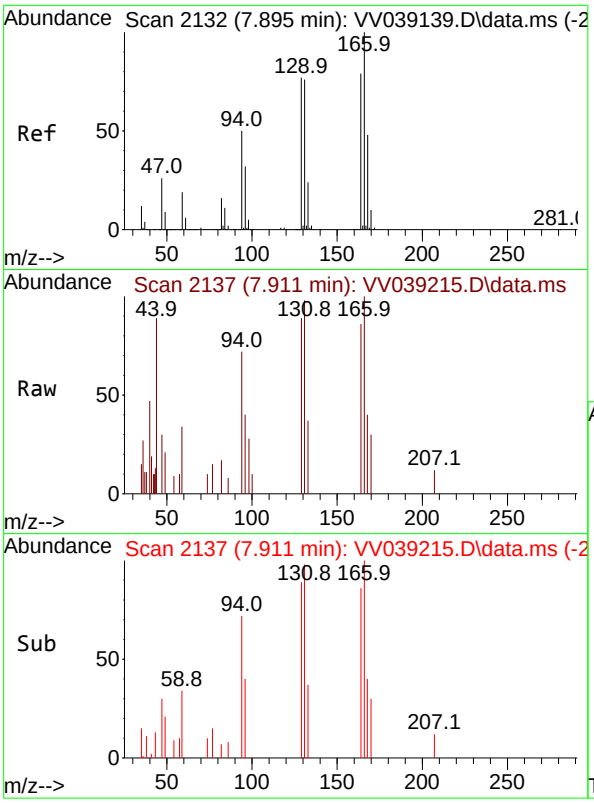


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion:117 Resp: 980974

Ion	Ratio	Lower	Upper
117	100		
82	54.2	45.4	68.2
119	32.0	25.6	38.4



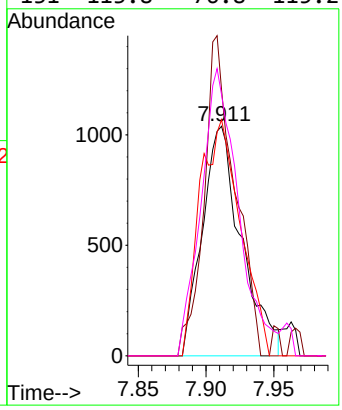


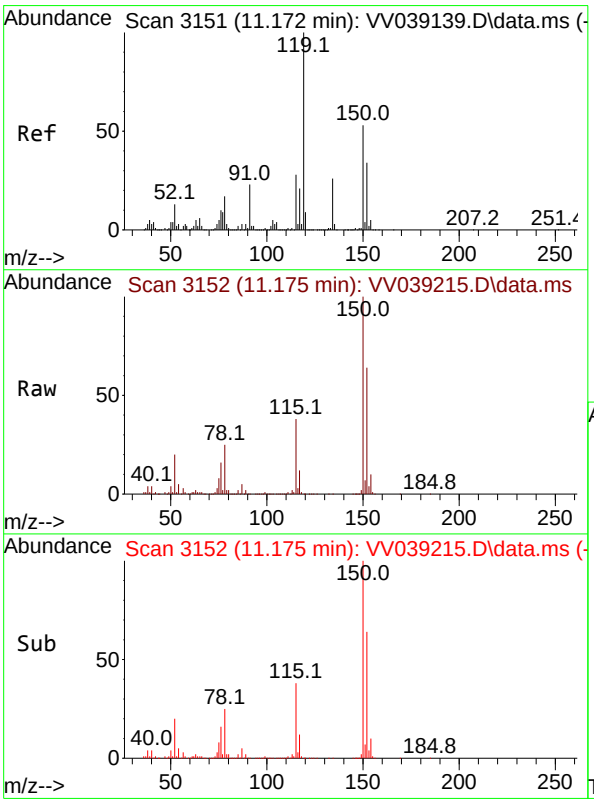
#64
Tetrachloroethene
Concen: 0.254 ug/l
RT: 7.911 min Scan# 21
Delta R.T. 0.016 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Tgt Ion:164 Resp: 2084

Ion	Ratio	Lower	Upper
164	100		
166	115.9	101.6	152.4
129	102.9	78.5	117.7
131	113.8	76.8	115.2

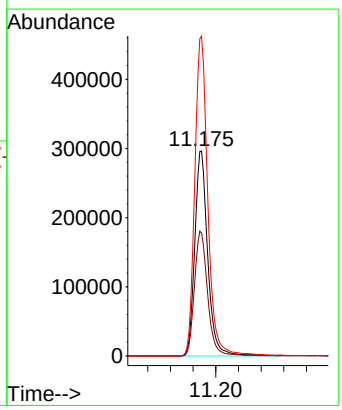




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion:152 Resp: 469900

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.8	134.4
150	157.2	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039215.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.098	11	18	50	rVB	1298569	1636743	1.87%	1.293%
2	1.915	260	272	308	rBV	3654142	6739454	7.69%	5.324%
3	2.082	309	324	407	rVB	42307391	87687529	100.00%	69.270%
4	4.503	1061	1077	1096	rBV2	609842	1693006	1.93%	1.337%
5	4.600	1096	1107	1151	rVB2	617534	1730984	1.97%	1.367%
6	4.940	1201	1213	1247	rBV	503565	1240011	1.41%	0.980%
7	5.532	1386	1397	1431	rBV	970902	2259066	2.58%	1.785%
8	5.828	1474	1489	1537	rBV	6205626	12900952	14.71%	10.191%
9	7.236	1915	1927	1961	rBV	1517385	2881925	3.29%	2.277%
10	8.776	2393	2406	2443	rBV	1722550	2935541	3.35%	2.319%
11	10.001	2775	2787	2819	rBV	1222700	2028245	2.31%	1.602%
12	11.172	3140	3151	3188	rBV	1768953	2854118	3.25%	2.255%

Sum of corrected areas: 126587574

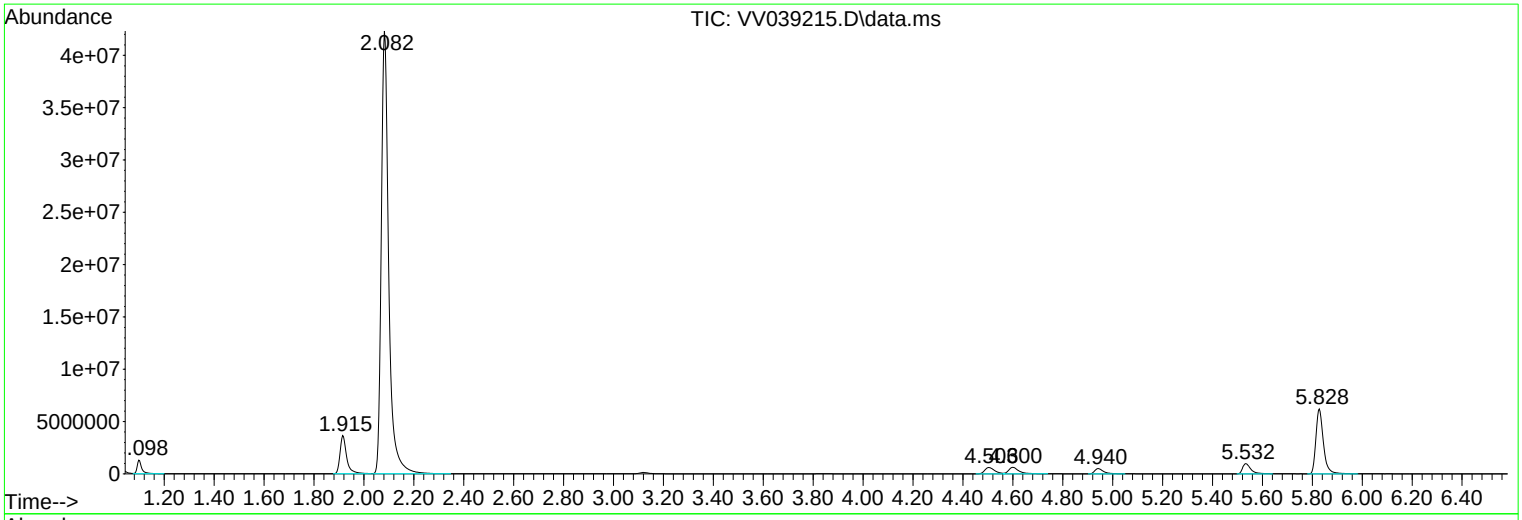
Sample Results: **VV039215.D**

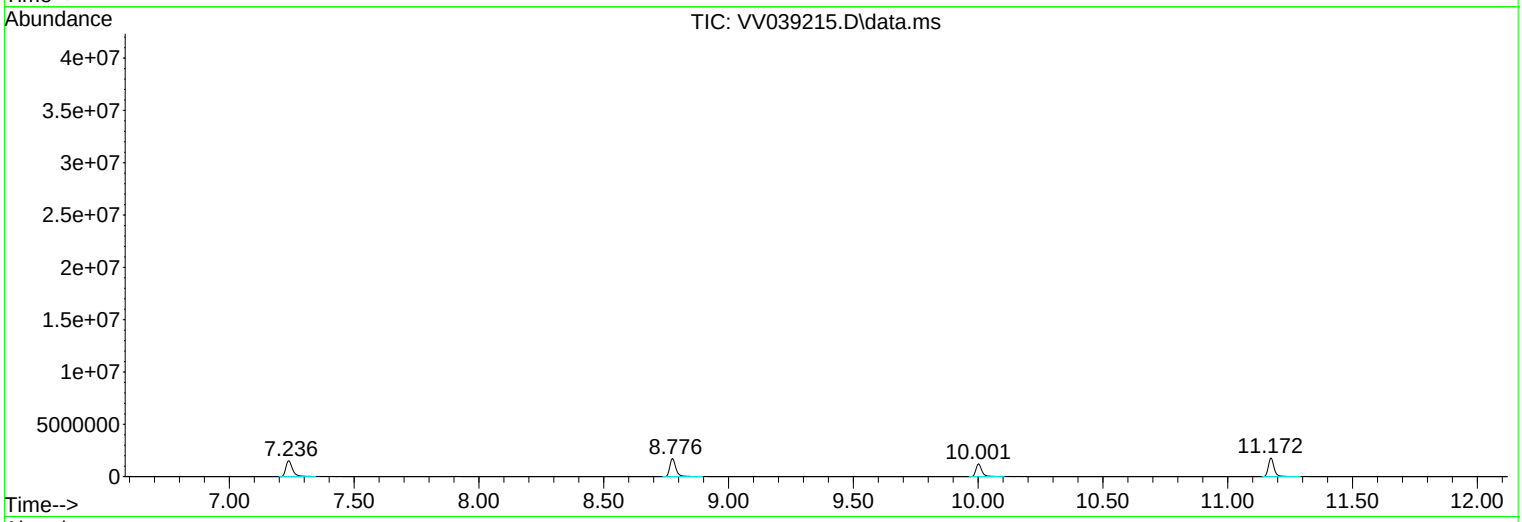
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

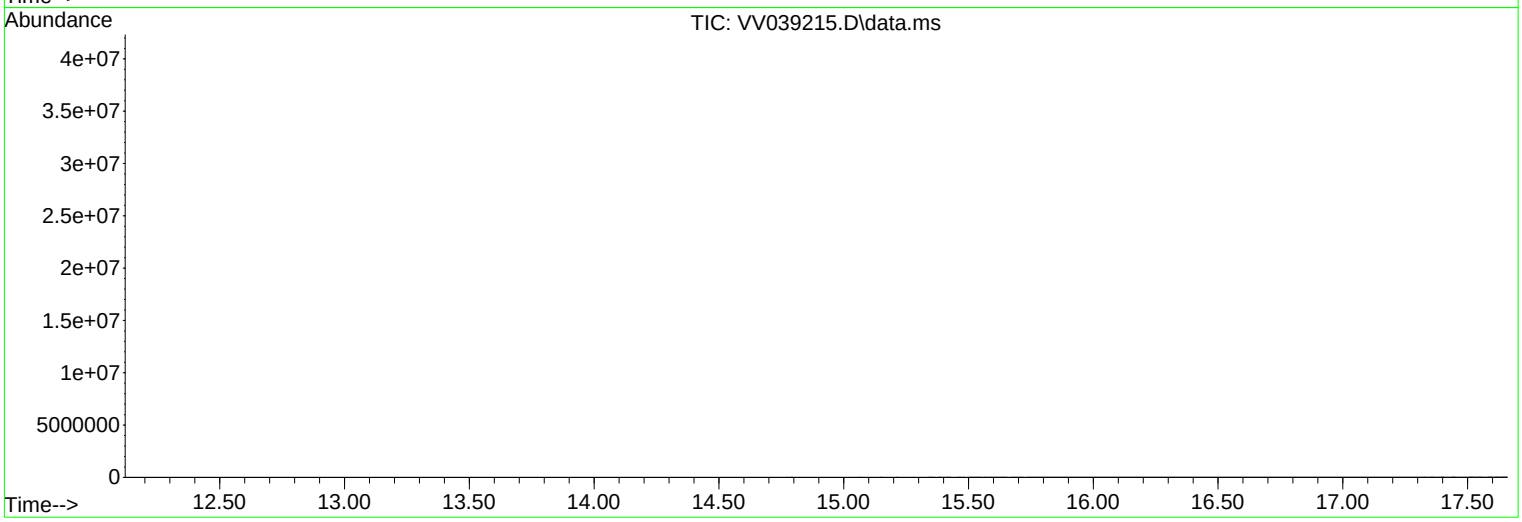
Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

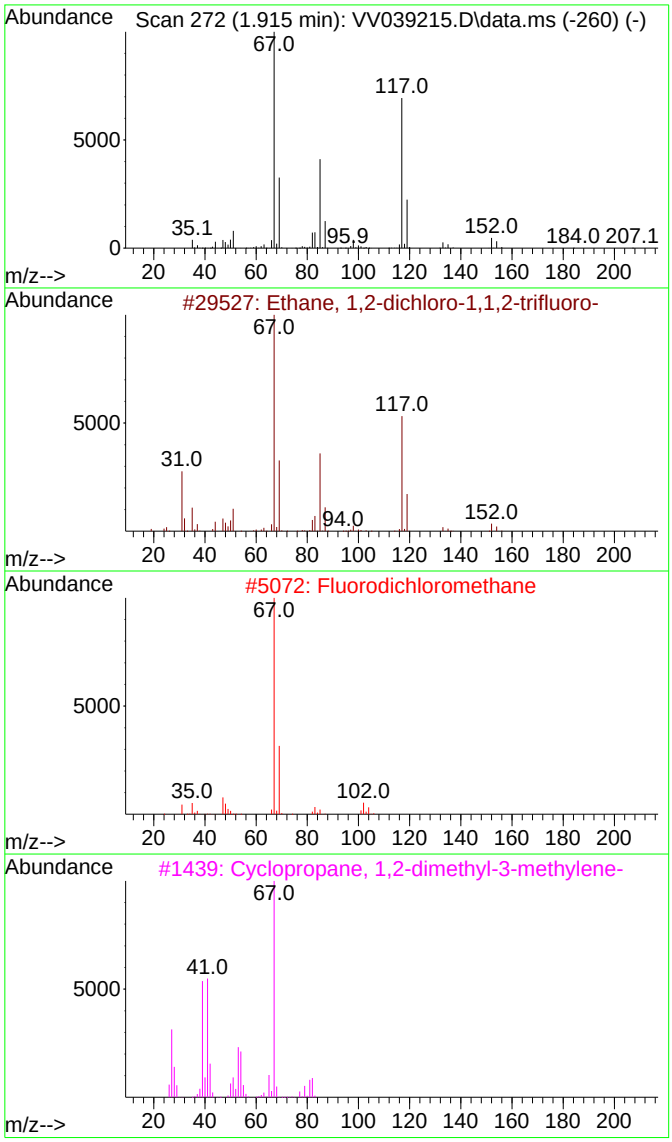
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

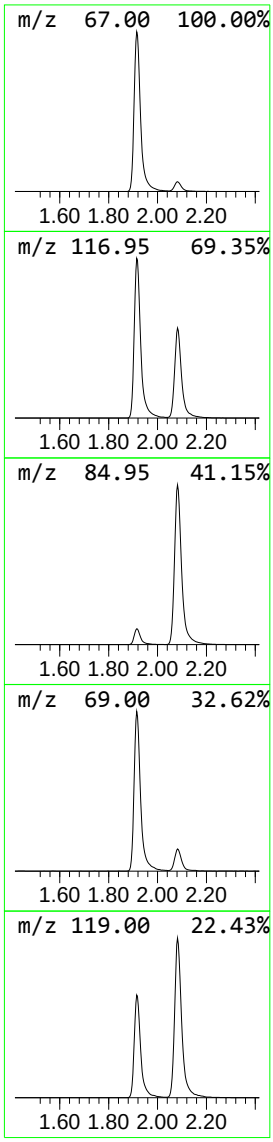
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.915	194.67 ug/l	6739450	Pentafluorobenzene	4.600

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2-dichloro-1,1,2-trifl...	152	C2HCl2F3	000354-23-4	94
2	Fluorodichloromethane	102	CHCl2F	000075-43-4	16
3	Cyclopropane, 1,2-dimethyl-3-met...	82	C6H10	062338-02-7	9
4	1,4-Pentadiene, 3-methyl-	82	C6H10	001115-08-8	9
5	Methyl 2-butynoate	98	C5H6O2	023326-27-4	9





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethane, 1,2-dic...	1.915	194.7	ug/l	6739450	1	4.600	1730980	50.0

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825DL	SDG No.:	Q3195
Lab Sample ID:	Q3195-16DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039230.D	40	09/29/25 14:38	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.9	JD	8.80	40.0	ug/L
74-87-3	Chloromethane	12.8	UD	12.8	40.0	ug/L
75-01-4	Vinyl Chloride	10.4	UD	10.4	40.0	ug/L
74-83-9	Bromomethane	57.6	UD	57.6	200	ug/L
75-00-3	Chloroethane	18.8	UD	18.8	40.0	ug/L
75-69-4	Trichlorofluoromethane	13.2	UD	13.2	40.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2400	D	10.0	40.0	ug/L
75-35-4	1,1-Dichloroethene	20.7	JD	9.20	40.0	ug/L
67-64-1	Acetone	60.4	UD	60.4	200	ug/L
75-15-0	Carbon Disulfide	8.40	UD	8.40	40.0	ug/L
1634-04-4	Methyl tert-butyl Ether	6.40	UD	6.40	40.0	ug/L
79-20-9	Methyl Acetate	10.8	UD	10.8	40.0	ug/L
75-09-2	Methylene Chloride	11.2	UD	11.2	40.0	ug/L
156-60-5	trans-1,2-Dichloroethene	9.20	UD	9.20	40.0	ug/L
75-34-3	1,1-Dichloroethane	9.80	JD	9.20	40.0	ug/L
110-82-7	Cyclohexane	58.0	UD	58.0	200	ug/L
78-93-3	2-Butanone	39.2	UD	39.2	200	ug/L
56-23-5	Carbon Tetrachloride	10.0	UD	10.0	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	7.60	UD	7.60	40.0	ug/L
74-97-5	Bromochloromethane	8.80	UD	8.80	40.0	ug/L
67-66-3	Chloroform	10.0	UD	10.0	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	8.00	UD	8.00	40.0	ug/L
108-87-2	Methylcyclohexane	6.40	UD	6.40	40.0	ug/L
71-43-2	Benzene	6.00	UD	6.00	40.0	ug/L
107-06-2	1,2-Dichloroethane	8.80	UD	8.80	40.0	ug/L
79-01-6	Trichloroethene	250	D	3.70	40.0	ug/L
78-87-5	1,2-Dichloropropane	8.00	UD	8.00	40.0	ug/L
75-27-4	Bromodichloromethane	8.80	UD	8.80	40.0	ug/L
108-10-1	4-Methyl-2-Pentanone	27.2	UDQ	27.2	200	ug/L
108-88-3	Toluene	5.60	UDQ	5.60	40.0	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825DL	SDG No.:	Q3195
Lab Sample ID:	Q3195-16DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039230.D	40	09/29/25 14:38	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.80	UD	6.80	40.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	6.40	UD	6.40	40.0	ug/L
79-00-5	1,1,2-Trichloroethane	8.40	UD	8.40	40.0	ug/L
591-78-6	2-Hexanone	35.6	UD	35.6	200	ug/L
124-48-1	Dibromochloromethane	7.20	UD	7.20	40.0	ug/L
106-93-4	1,2-Dibromoethane	6.00	UDQ	6.00	40.0	ug/L
127-18-4	Tetrachloroethene	9.20	UD	9.20	40.0	ug/L
108-90-7	Chlorobenzene	4.80	UD	4.80	40.0	ug/L
100-41-4	Ethyl Benzene	5.20	UD	5.20	40.0	ug/L
179601-23-1	m/p-Xylenes	9.60	UDQ	9.60	80.0	ug/L
95-47-6	o-Xylene	4.80	UD	4.80	40.0	ug/L
100-42-5	Styrene	6.00	UD	6.00	40.0	ug/L
75-25-2	Bromoform	7.60	UDQ	7.60	40.0	ug/L
98-82-8	Isopropylbenzene	4.80	UD	4.80	40.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.4	UD	10.4	40.0	ug/L
541-73-1	1,3-Dichlorobenzene	6.40	UD	6.40	40.0	ug/L
106-46-7	1,4-Dichlorobenzene	7.60	UD	7.60	40.0	ug/L
95-50-1	1,2-Dichlorobenzene	6.40	UD	6.40	40.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.2	UD	21.2	40.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	8.00	UD	8.00	40.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	8.00	UD	8.00	40.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		74 - 125	114%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		75 - 124	112%	SPK: 50
2037-26-5	Toluene-d8	45.2		86 - 113	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	458000	4.6			
540-36-3	1,4-Difluorobenzene	805000	5.535			
3114-55-4	Chlorobenzene-d5	812000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	405000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825DL	SDG No.:	Q3195
Lab Sample ID:	Q3195-16DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039230.D	40	09/29/25 14:38	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039230.D
Acq On : 29 Sep 2025 14:38
Operator : SY/MD
Sample : Q3195-16DL 40X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Quant Time: Sep 30 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

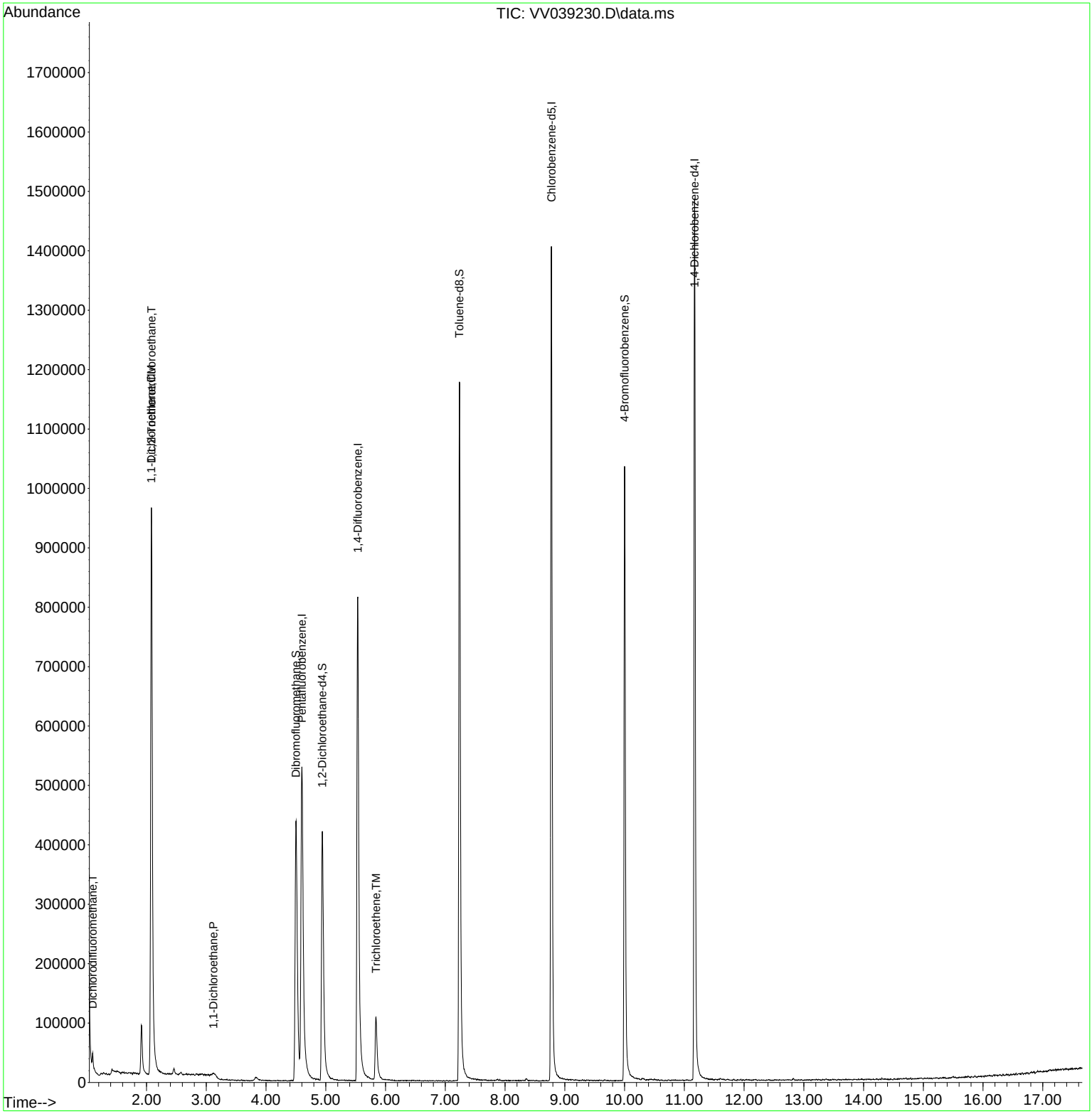
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	458405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	805402	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	812071	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	405371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	377389	56.883	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 113.760%			
35) Dibromofluoromethane	4.500	113	361022	55.758	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 111.520%			
50) Toluene-d8	7.236	98	858799	45.161	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.320%			
62) 4-Bromofluorobenzene	10.001	95	350525	44.775	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.098	85	3606	0.497	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	429996	59.852	ug/l	97
12) 1,1-Dichloroethene	2.079	96	3581	0.518	ug/l #	61
24) 1,1-Dichloroethane	3.121	63	3525	0.244	ug/l #	83
44) Trichloroethene	5.841	130	45433	6.176	ug/l	96

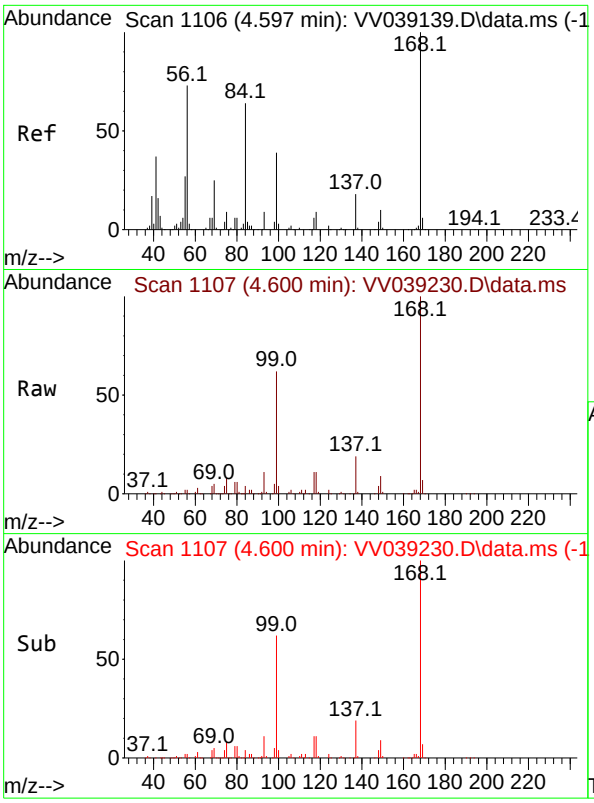
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039230.D
Acq On : 29 Sep 2025 14:38
Operator : SY/MD
Sample : Q3195-16DL 40X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Quant Time: Sep 30 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



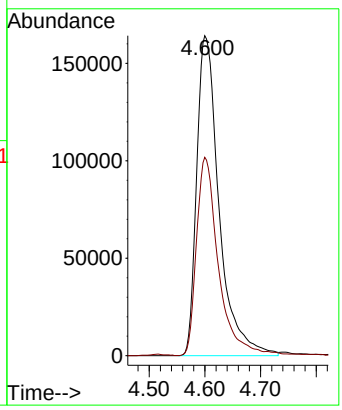


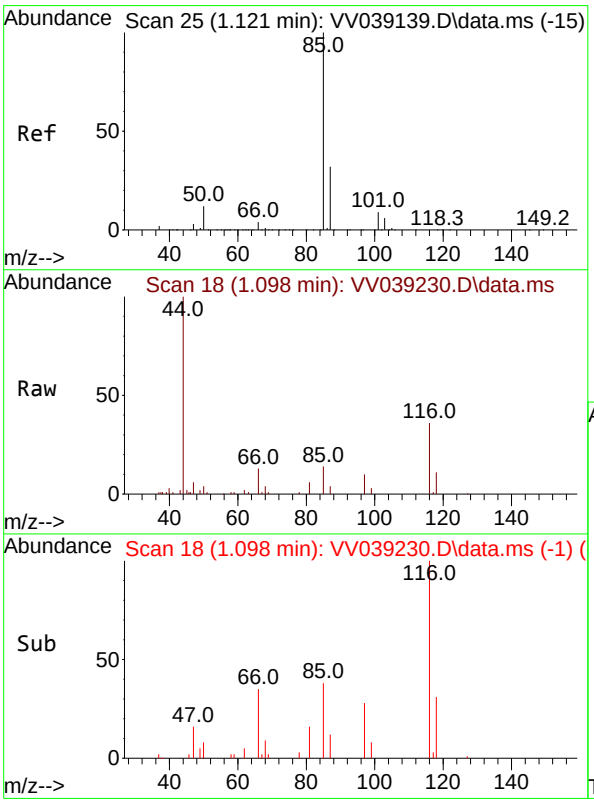
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Tgt Ion:168 Resp: 458405

Ion	Ratio	Lower	Upper
168	100		
99	61.9	49.6	74.4

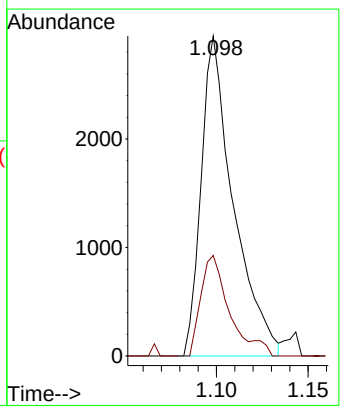


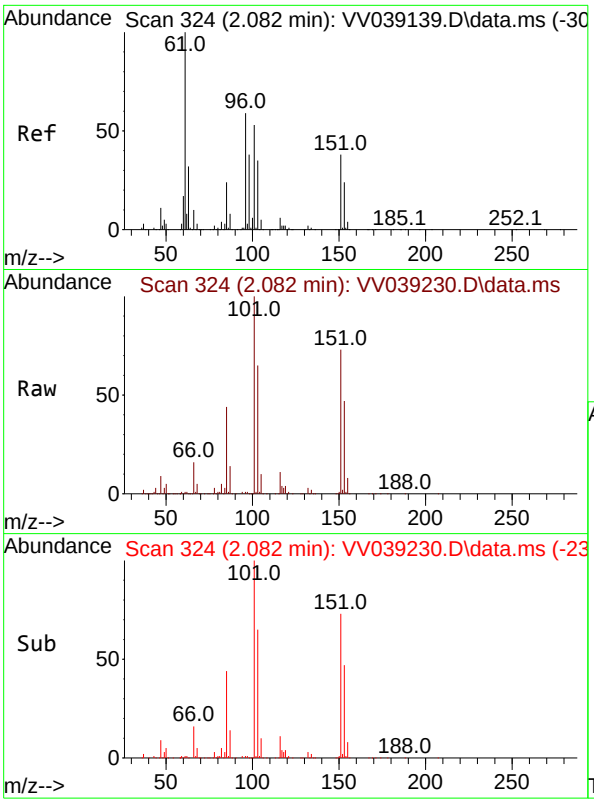


#2
Dichlorodifluoromethane
Concen: 0.497 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.022 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 85 Resp: 3606

Ion	Ratio	Lower	Upper
85	100		
87	31.4	16.0	47.9



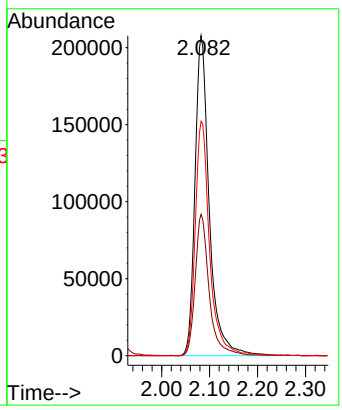


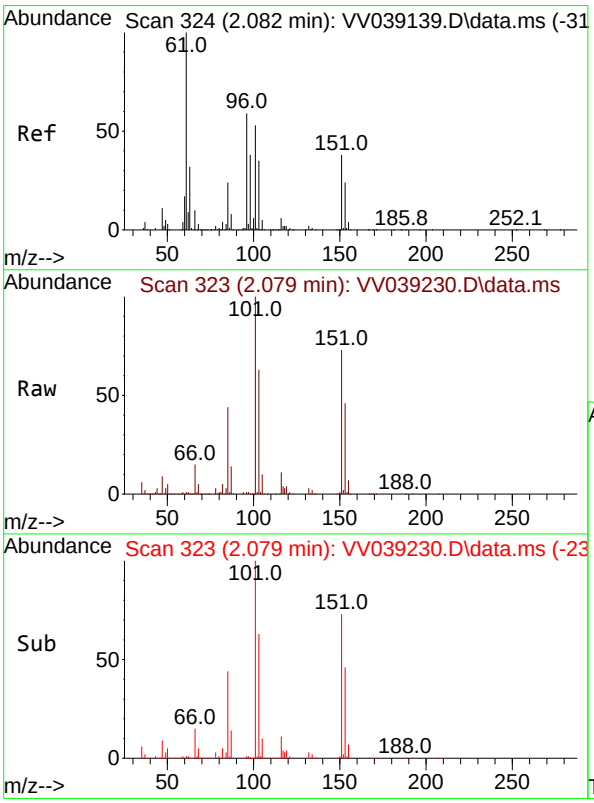
#9
1,1,2-Trichlorotrifluoroethane
Concen: 59.852 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Tgt Ion:101 Resp: 429996

Ion	Ratio	Lower	Upper
101	100		
85	43.2	36.2	54.2
151	73.0	56.3	84.5

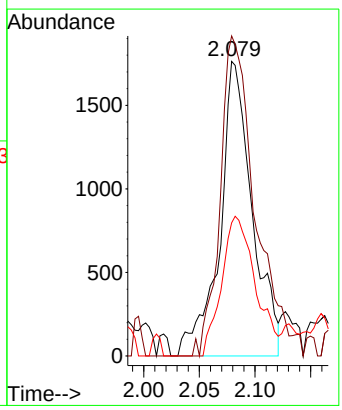


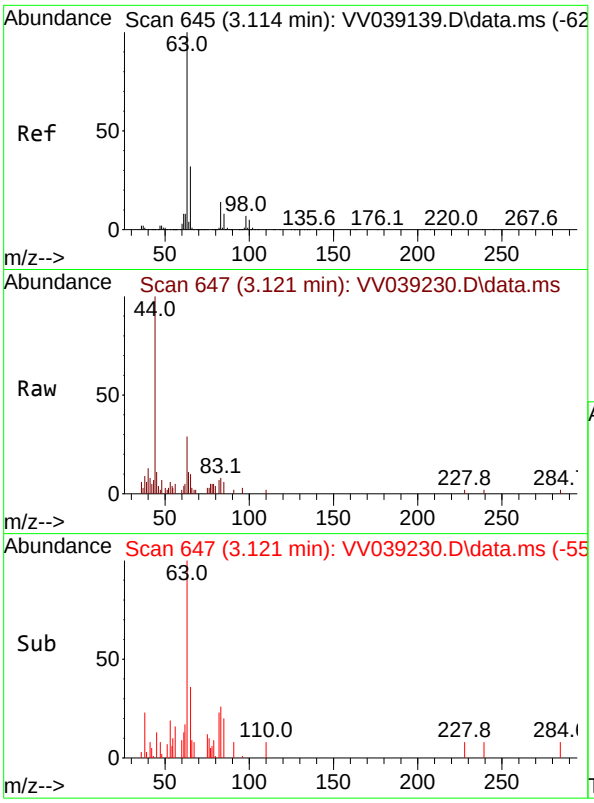


#12
1,1-Dichloroethene
Concen: 0.518 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 96 Resp: 3581

Ion	Ratio	Lower	Upper
96	100		
61	108.6	136.0	204.0#
98	45.2	51.0	76.6#



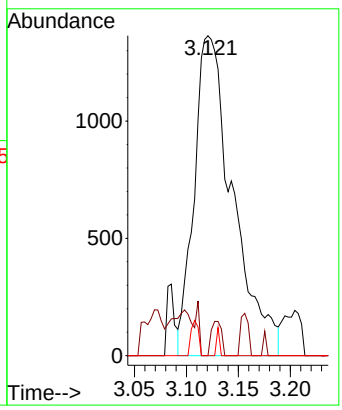


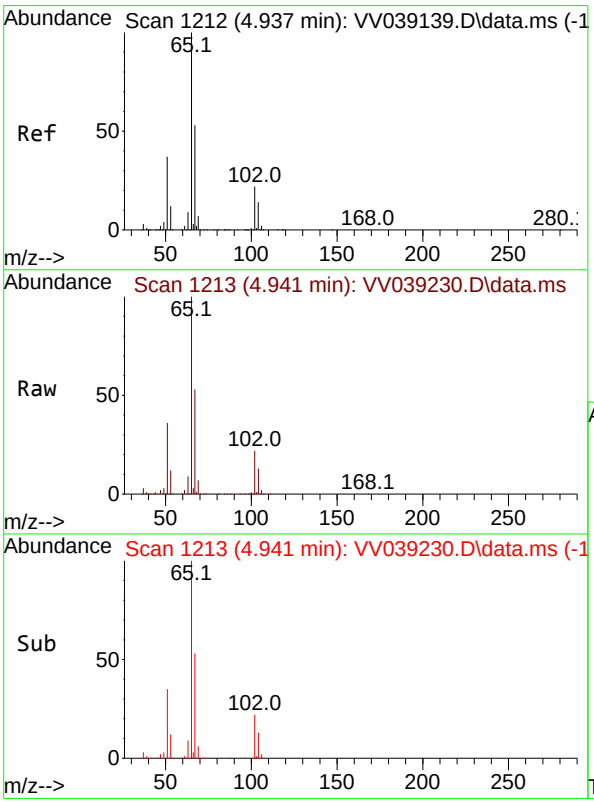
#24
1,1-Dichloroethane
Concen: 0.244 ug/l
RT: 3.121 min Scan# 64
Delta R.T. 0.006 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Tgt Ion: 63 Resp: 3525

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.4	10.2#
100	0.0	2.2	6.6#

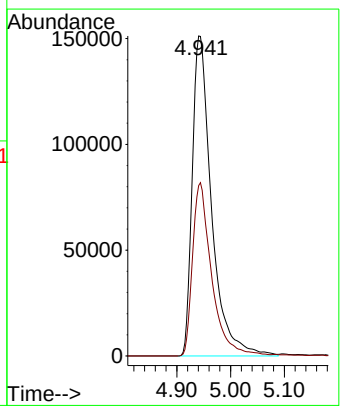


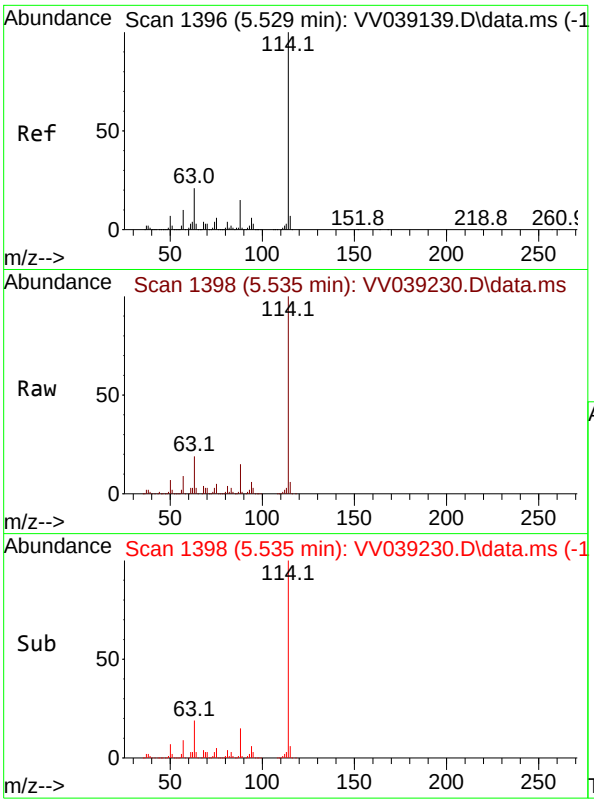


#33
1,2-Dichloroethane-d4
Concen: 56.883 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 65 Resp: 377389

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	107.0



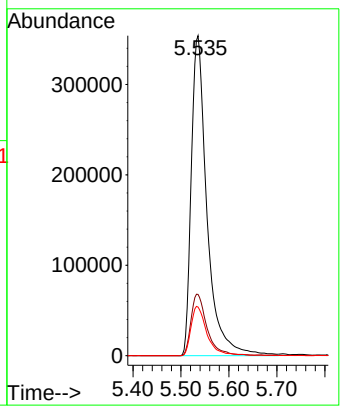


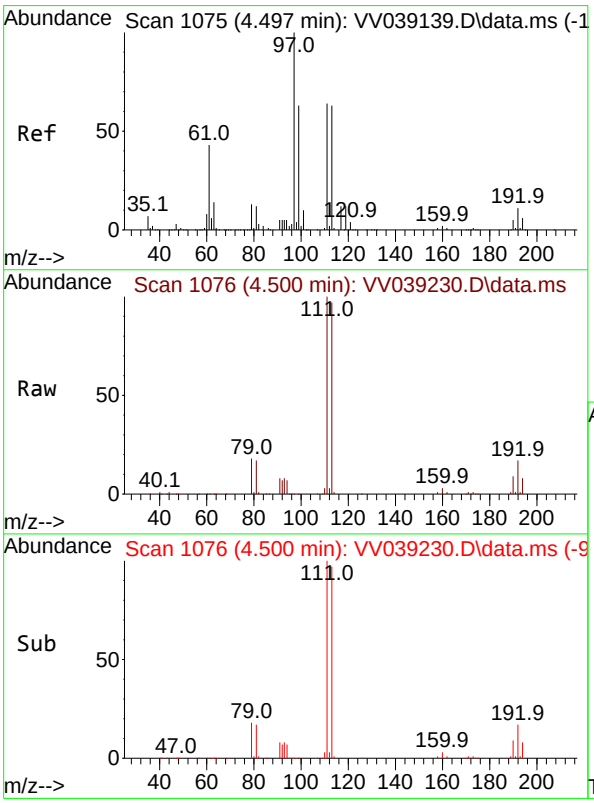
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Tgt Ion:114 Resp: 805402

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	42.6
88	15.2	0.0	30.8

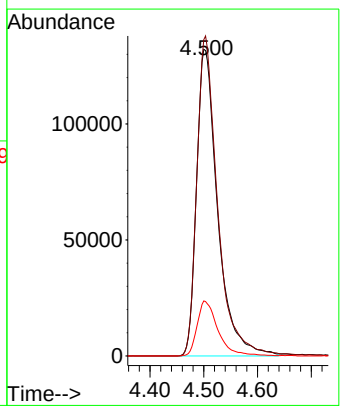


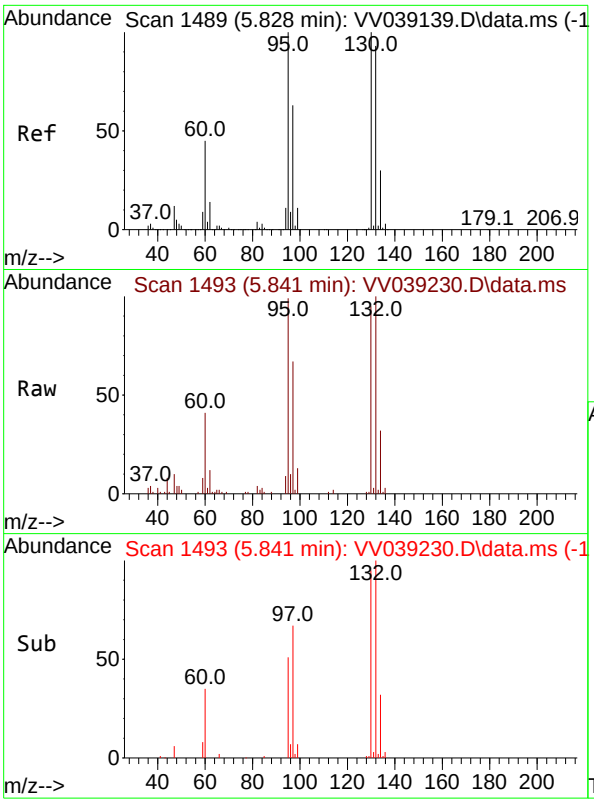


#35
Dibromofluoromethane
Concen: 55.758 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion:113 Resp: 361022

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	17.7	13.8	20.8



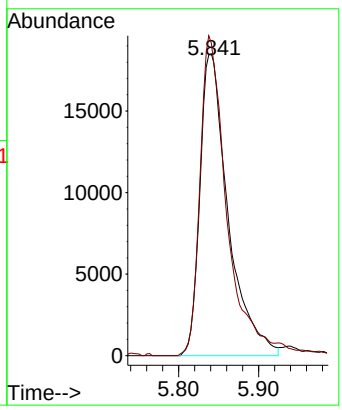


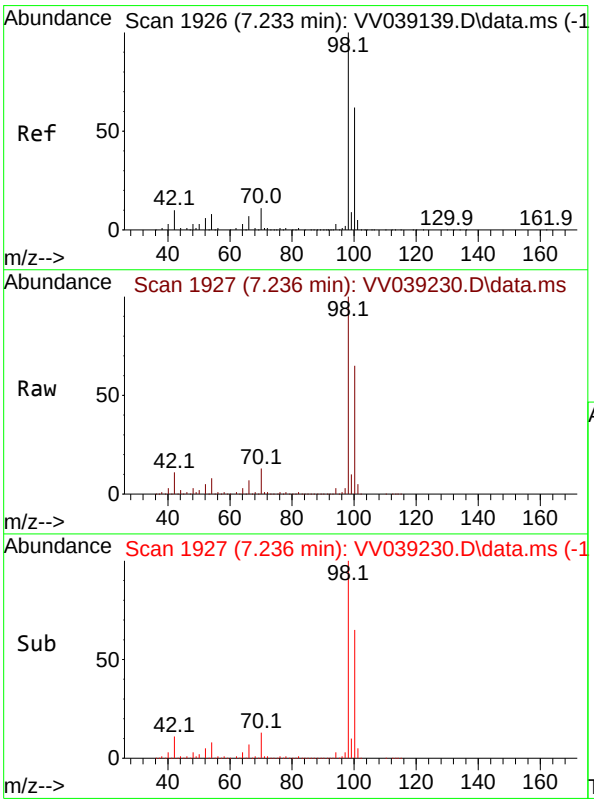
#44
Trichloroethene
Concen: 6.176 ug/l
RT: 5.841 min Scan# 14
Delta R.T. 0.013 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Tgt Ion:130 Resp: 45433

Ion	Ratio	Lower	Upper
130	100		
95	103.5	0.0	199.2

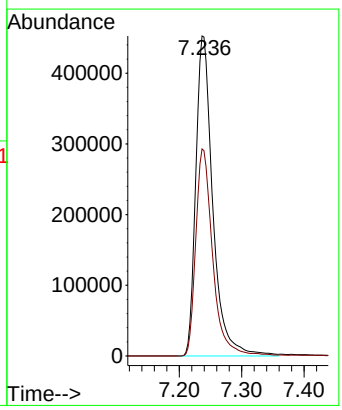


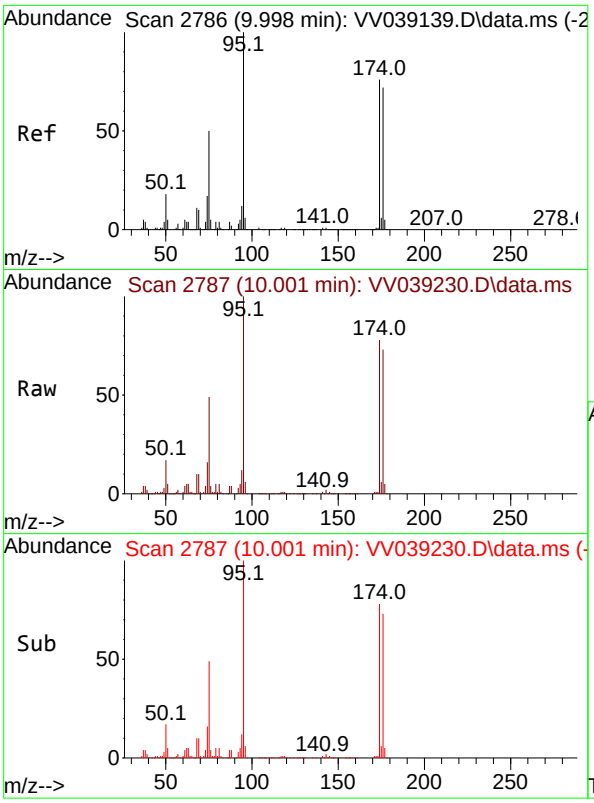


#50
Toluene-d8
Concen: 45.161 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 98 Resp: 858799

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.2



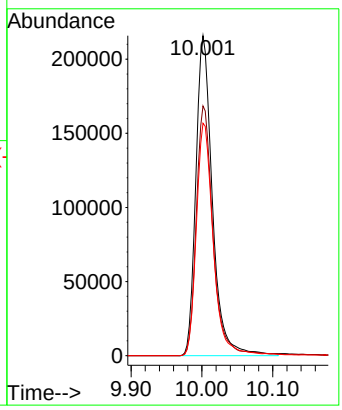


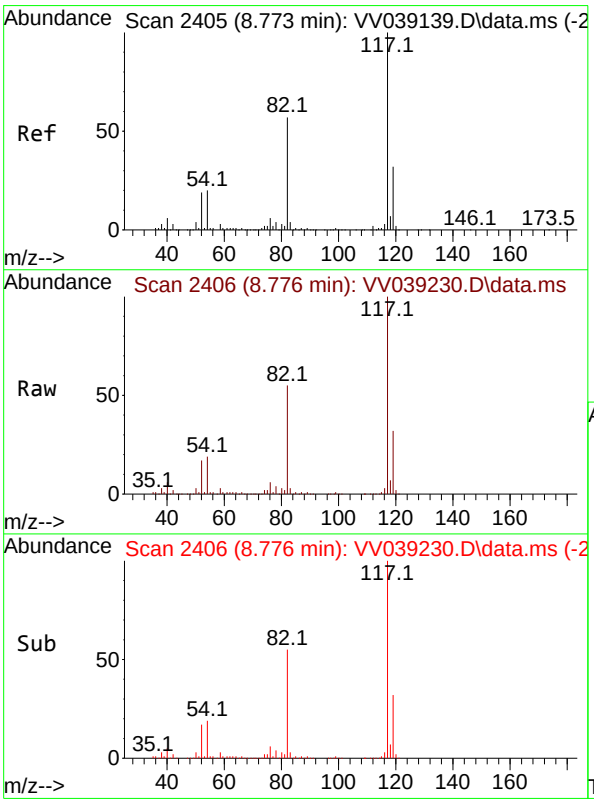
#62
4-Bromofluorobenzene
Concen: 44.775 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Tgt Ion: 95 Resp: 350525

Ion	Ratio	Lower	Upper
95	100		
174	79.0	0.0	150.4
176	73.7	0.0	144.2

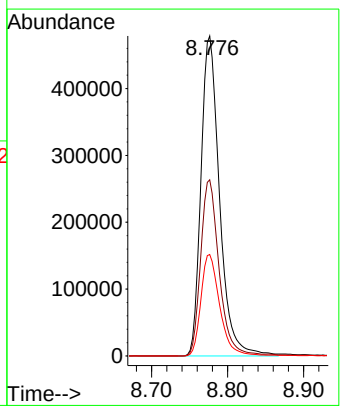


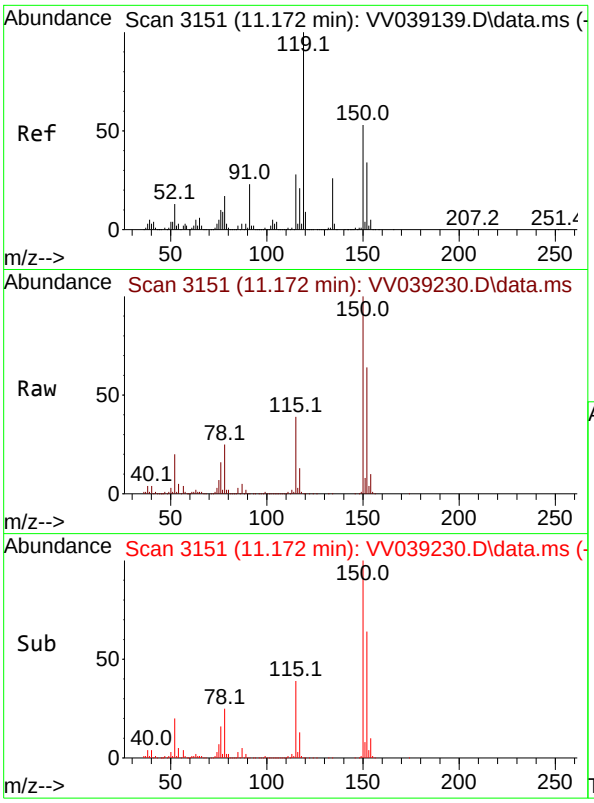


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion:117 Resp: 812071

Ion	Ratio	Lower	Upper
117	100		
82	55.1	45.4	68.2
119	31.7	25.6	38.4



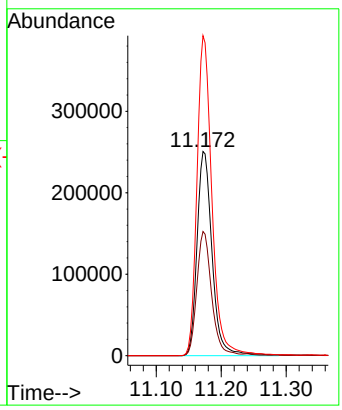


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825DL

Tgt Ion:152 Resp: 405371

Ion	Ratio	Lower	Upper
152	100		
115	59.5	44.8	134.4
150	155.4	0.0	353.8



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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825-FD	SDG No.:	Q3195
Lab Sample ID:	Q3195-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039216.D	1	09/26/25 16:28	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	31.6		0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	3500	E	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	26.8		0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	13.7		0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.30		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	12.8		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	420	E	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825-FD	SDG No.:	Q3195
Lab Sample ID:	Q3195-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039216.D	1	09/26/25 16:28	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.41	J	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.6		74 - 125	123%	SPK: 50
1868-53-7	Dibromofluoromethane	58.4		75 - 124	117%	SPK: 50
2037-26-5	Toluene-d8	49.2		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.3		77 - 121	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	333000	4.6			
540-36-3	1,4-Difluorobenzene	592000	5.535			
3114-55-4	Chlorobenzene-d5	613000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	283000	11.172			
TENTATIVE IDENTIFIED COMPOUNDS						

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825-FD	SDG No.:	Q3195
Lab Sample ID:	Q3195-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039216.D	1	09/26/25 16:28	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluo	310	J		1.92	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Quant Time: Sep 29 07:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

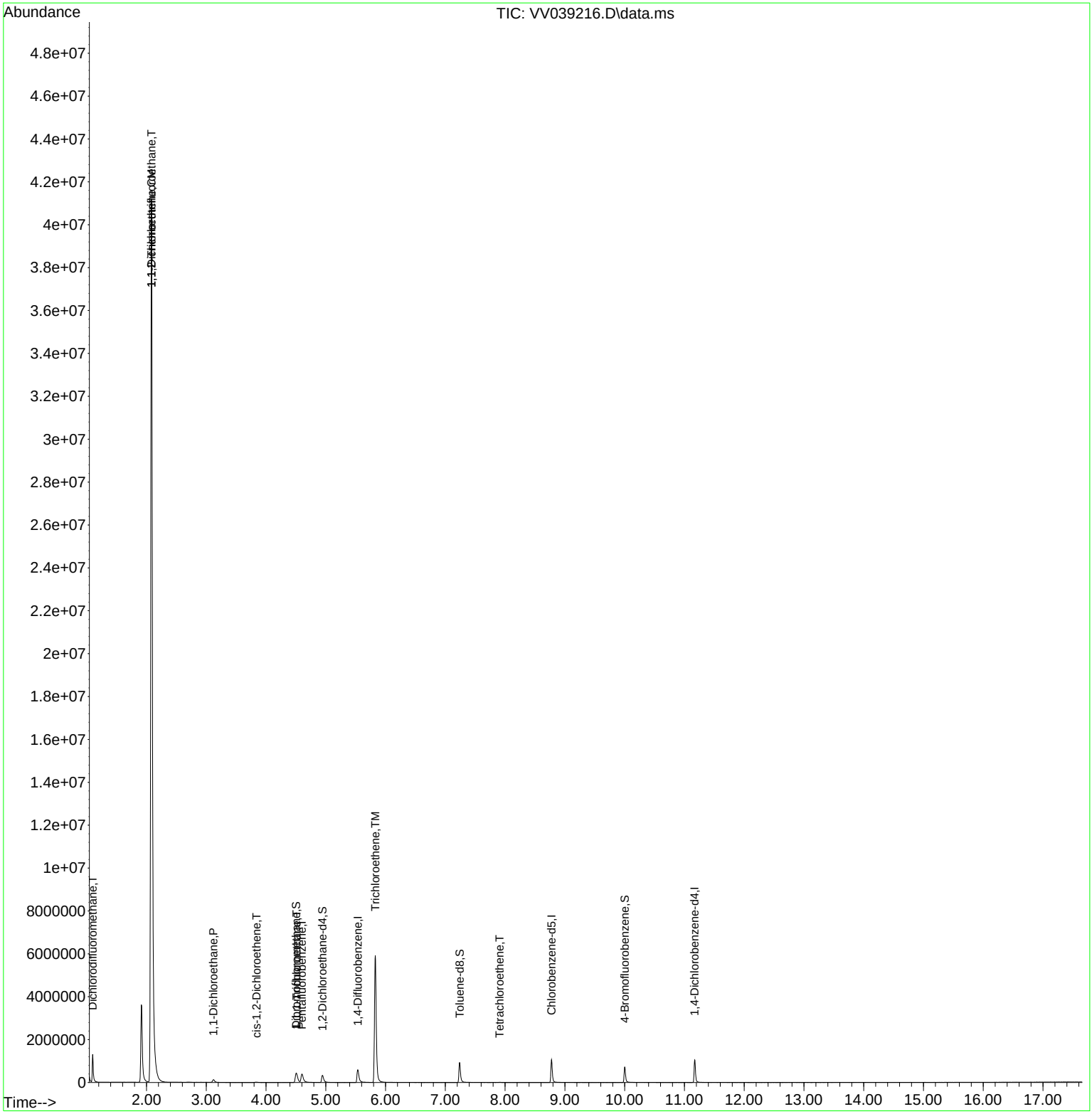
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	333282	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	591720	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	612863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	282611	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	297286	61.632	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 123.260%#			
35) Dibromofluoromethane	4.503	113	277907	58.421	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 116.840%			
50) Toluene-d8	7.240	98	687399	49.201	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 98.400%			
62) 4-Bromofluorobenzene	10.002	95	248948	43.284	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 86.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.098	85	166827	31.621	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	18130416	3471.017	ug/l	98
12) 1,1-Dichloroethene	2.082	96	134462	26.759	ug/l #	72
24) 1,1-Dichloroethane	3.121	63	143864	13.698	ug/l	98
27) cis-1,2-Dichloroethene	3.841	96	7783	1.319	ug/l	85
32) 1,1,1-Trichloroethane	4.513	97	121055	12.750	ug/l	97
44) Trichloroethene	5.828	130	2270715	420.172	ug/l	99
64) Tetrachloroethene	7.908	164	2091	0.407	ug/l #	83

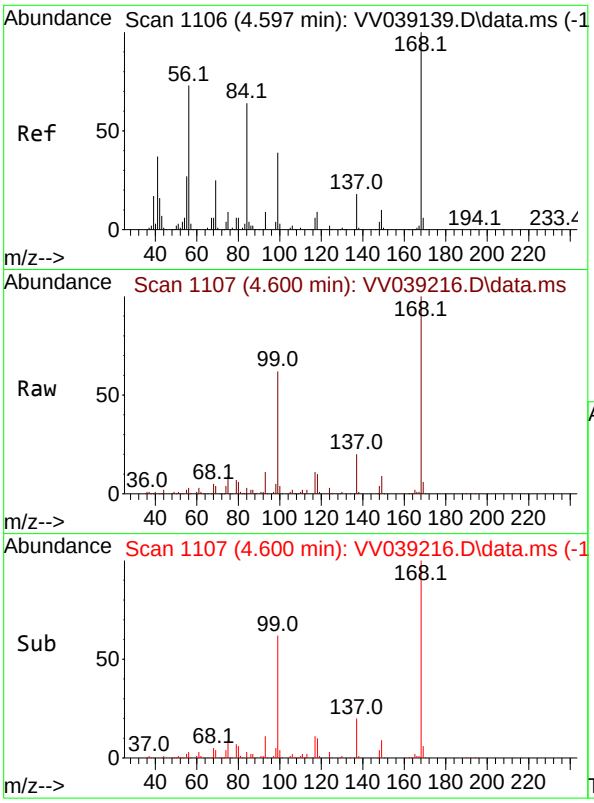
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Quant Time: Sep 29 07:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



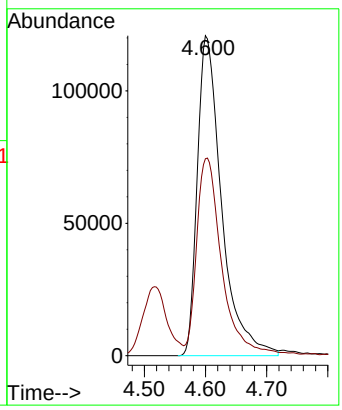


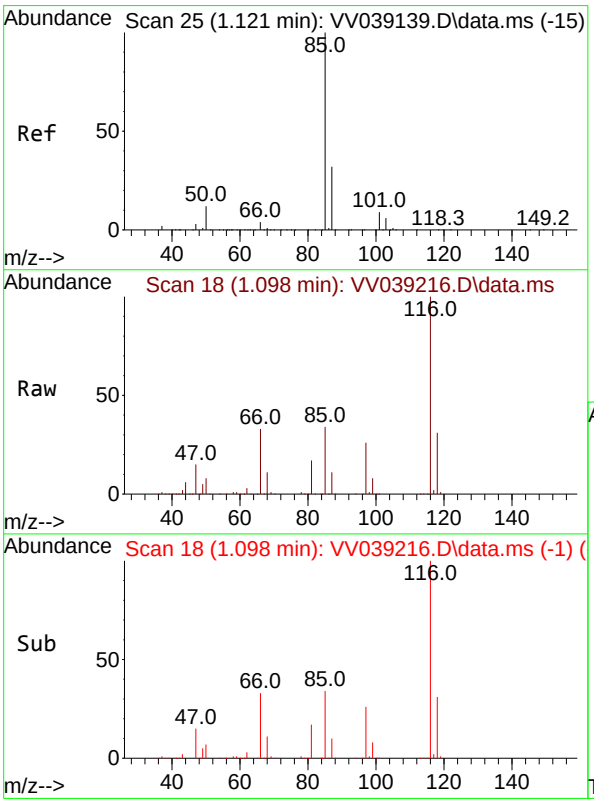
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion:168 Resp: 333282

Ion	Ratio	Lower	Upper
168	100		
99	60.5	49.6	74.4

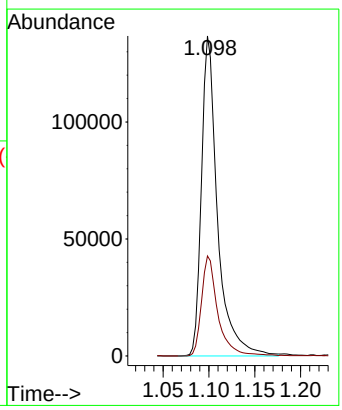


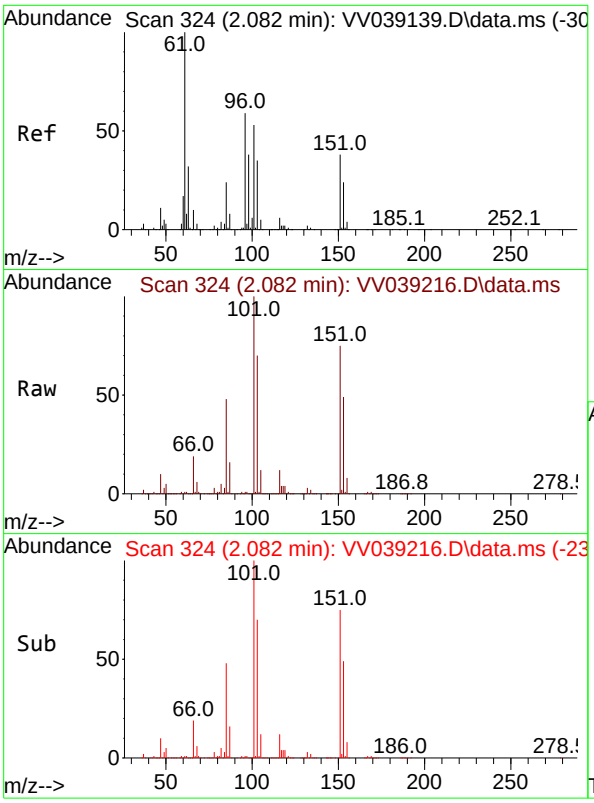


#2
Dichlorodifluoromethane
Concen: 31.621 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.022 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 85 Resp: 166827

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.0	47.9



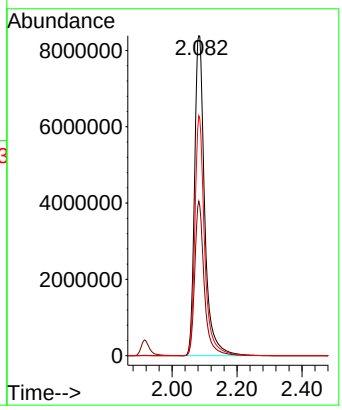


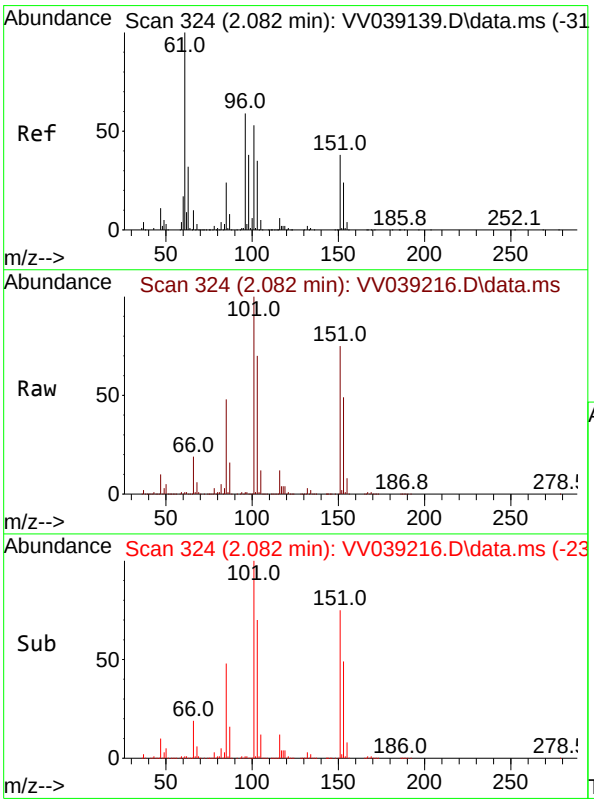
#9
1,1,2-Trichlorotrifluoroethane
Concen: 3471.017 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion:101 Resp:18130416

Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.2	54.2
151	72.5	56.3	84.5

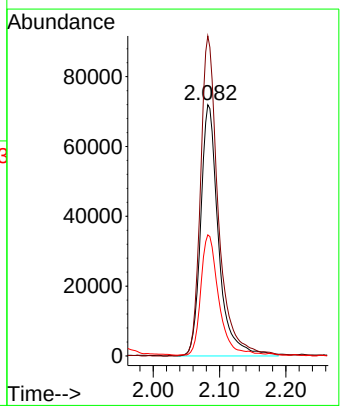


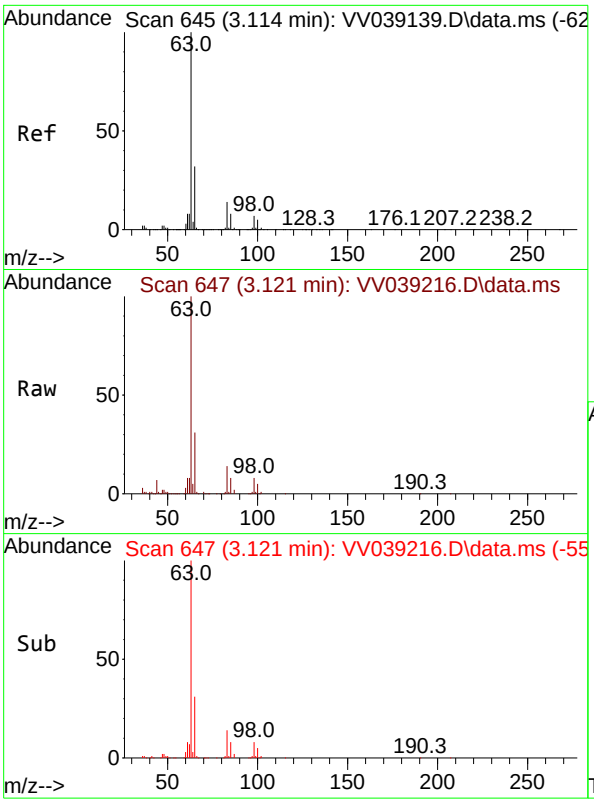


#12
1,1-Dichloroethene
Concen: 26.759 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 96 Resp: 134462

Ion	Ratio	Lower	Upper
96	100		
61	127.3	136.0	204.0#
98	47.9	51.0	76.6#



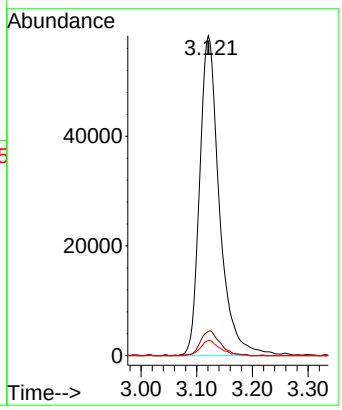


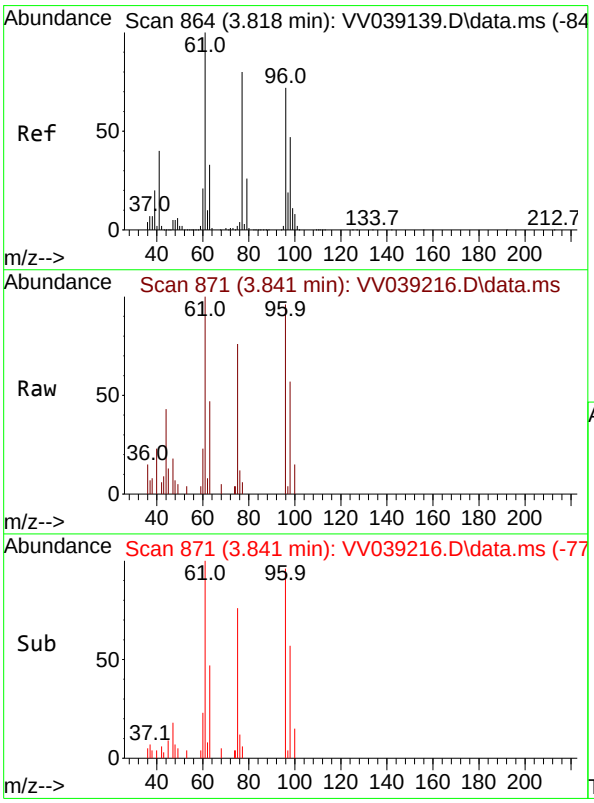
#24
1,1-Dichloroethane
Concen: 13.698 ug/l
RT: 3.121 min Scan# 64
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion: 63 Resp: 143864

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.4	10.2
100	4.7	2.2	6.6

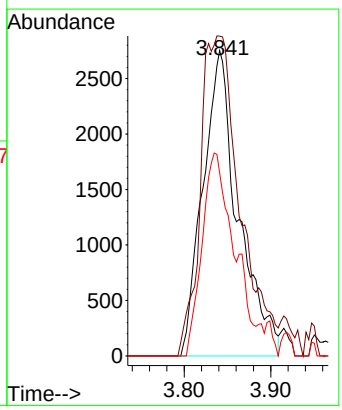


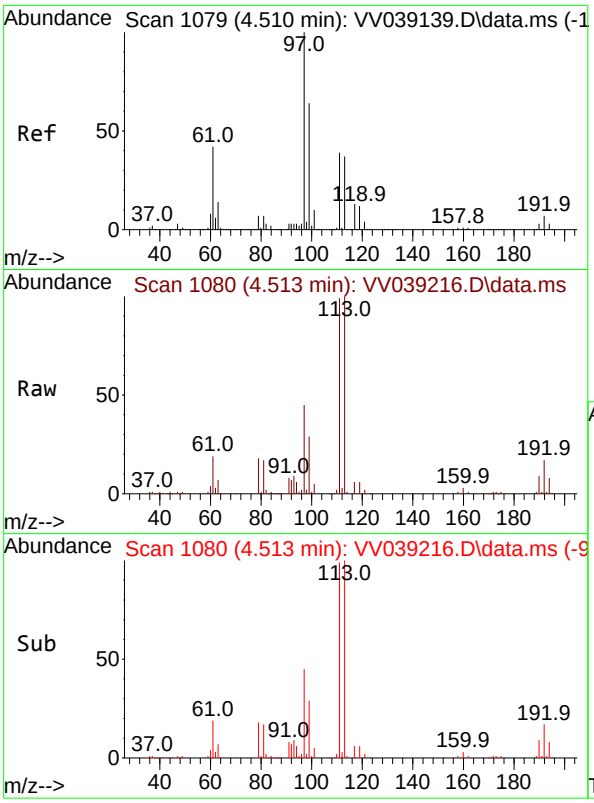


#27
cis-1,2-Dichloroethene
Concen: 1.319 ug/l
RT: 3.841 min Scan# 871
Delta R.T. 0.023 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 96 Resp: 7783

Ion	Ratio	Lower	Upper
96	100		
61	117.3	0.0	286.4
98	62.2	0.0	126.6



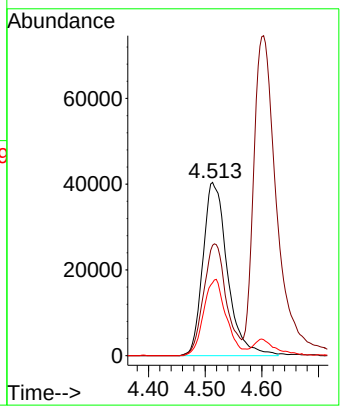


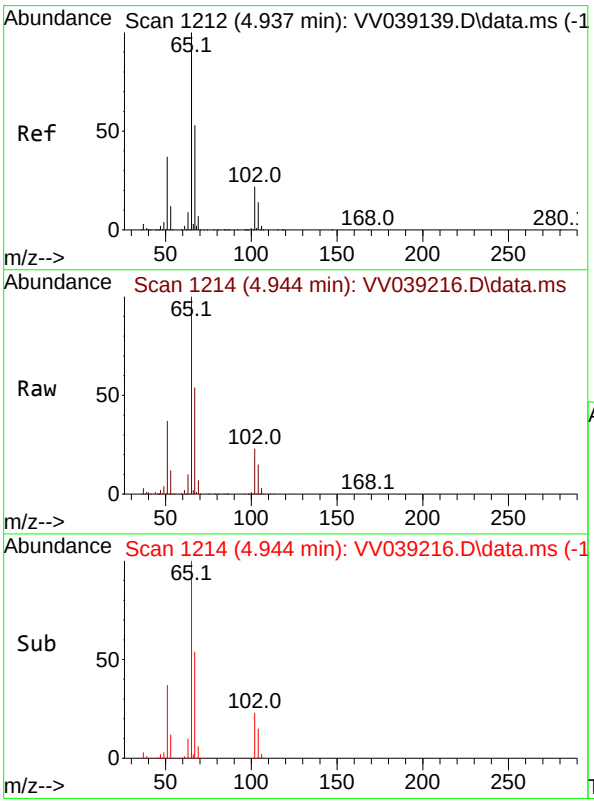
#32
1,1,1-Trichloroethane
Concen: 12.750 ug/l
RT: 4.513 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion: 97 Resp: 121055

Ion	Ratio	Lower	Upper
97	100		
99	60.2	49.6	74.4
61	41.1	34.5	51.7

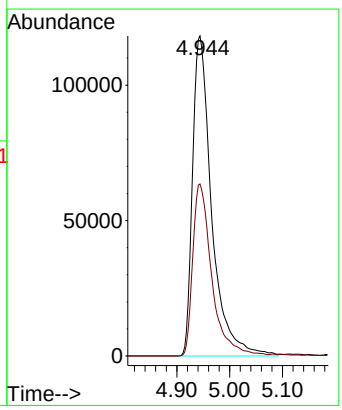


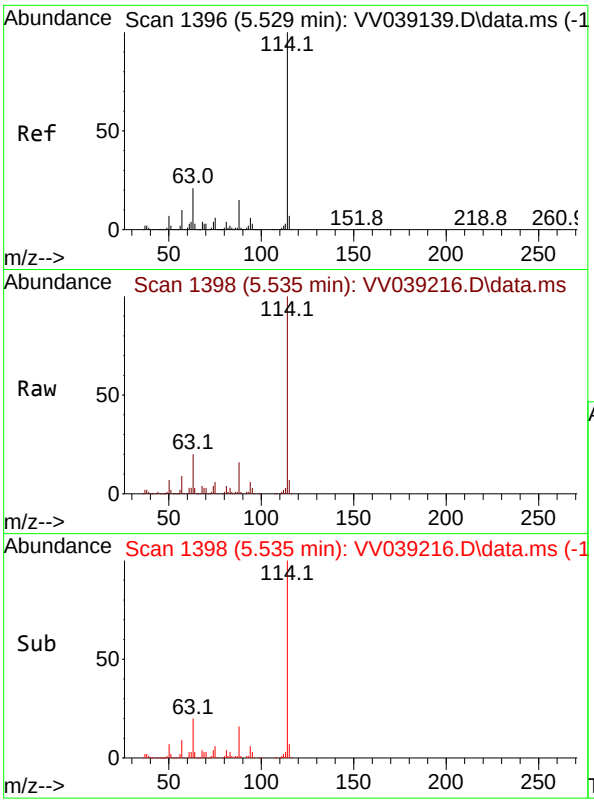


#33
1,2-Dichloroethane-d4
Concen: 61.632 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 65 Resp: 297286

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	107.0



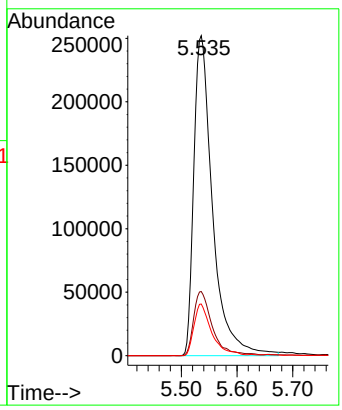


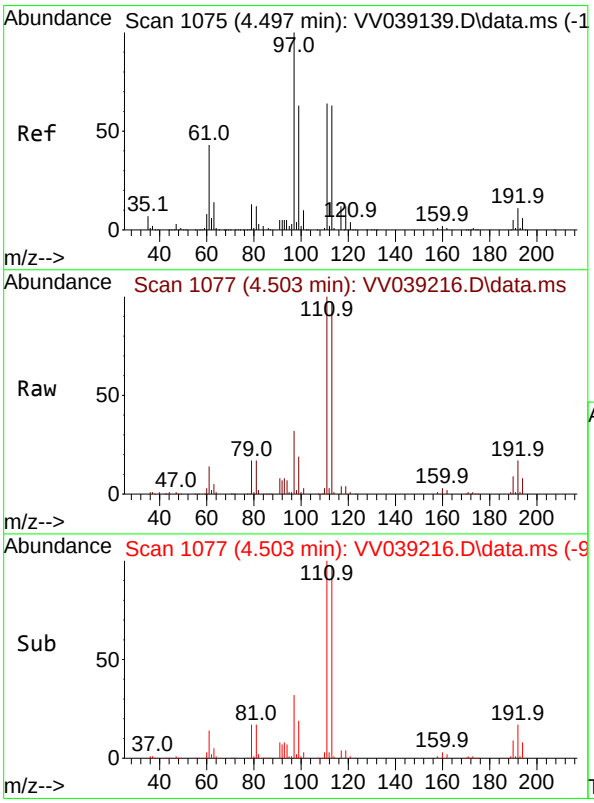
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion:114 Resp: 591720

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	42.6
88	16.2	0.0	30.8

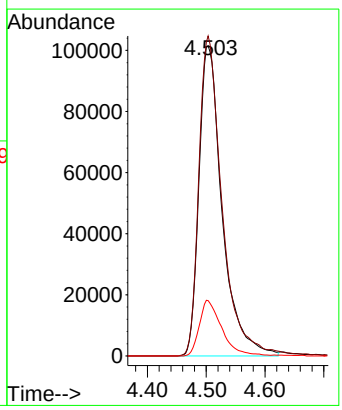


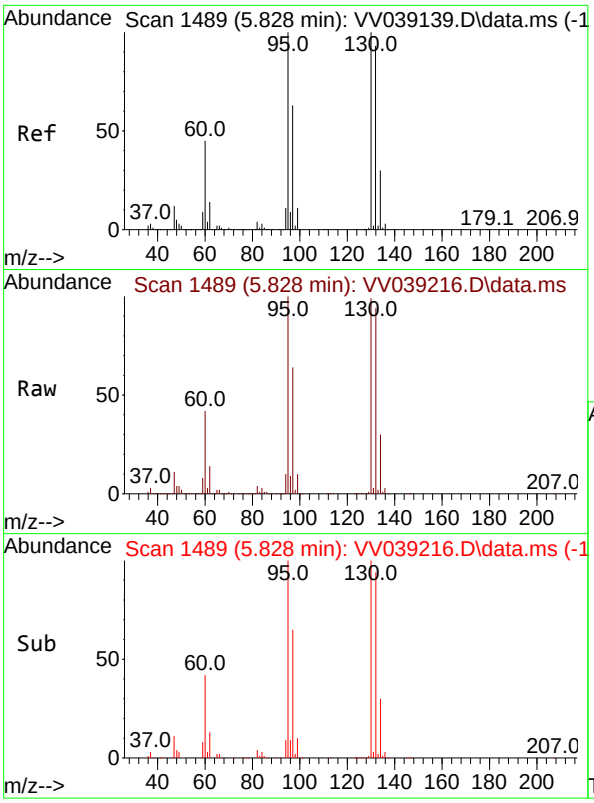


#35
Dibromofluoromethane
Concen: 58.421 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion:113 Resp: 277907

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.4	123.6
192	17.4	13.8	20.8



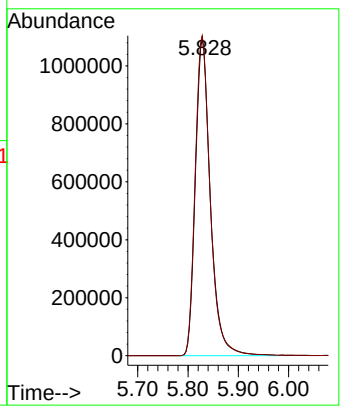


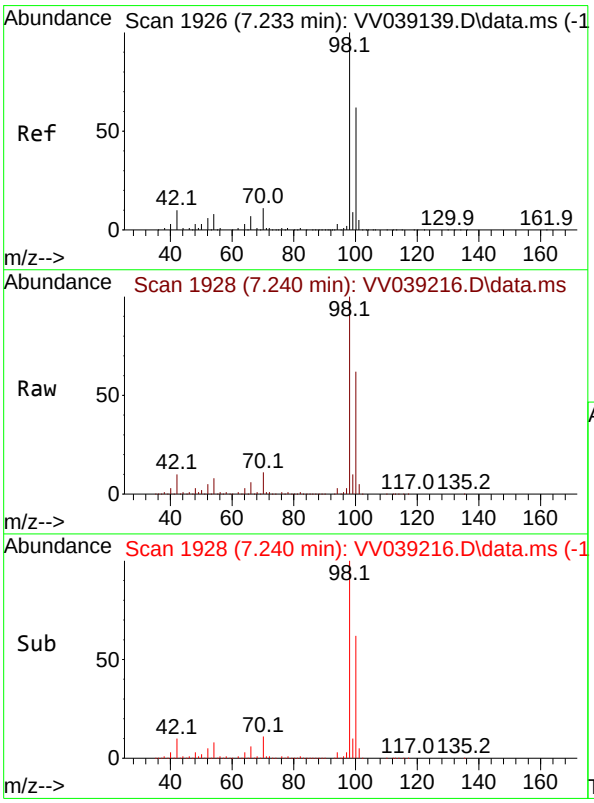
#44
Trichloroethene
Concen: 420.172 ug/l
RT: 5.828 min Scan# 14
Delta R.T. 0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion:130 Resp: 2270715

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	199.2

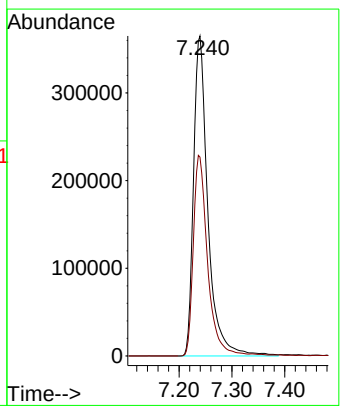


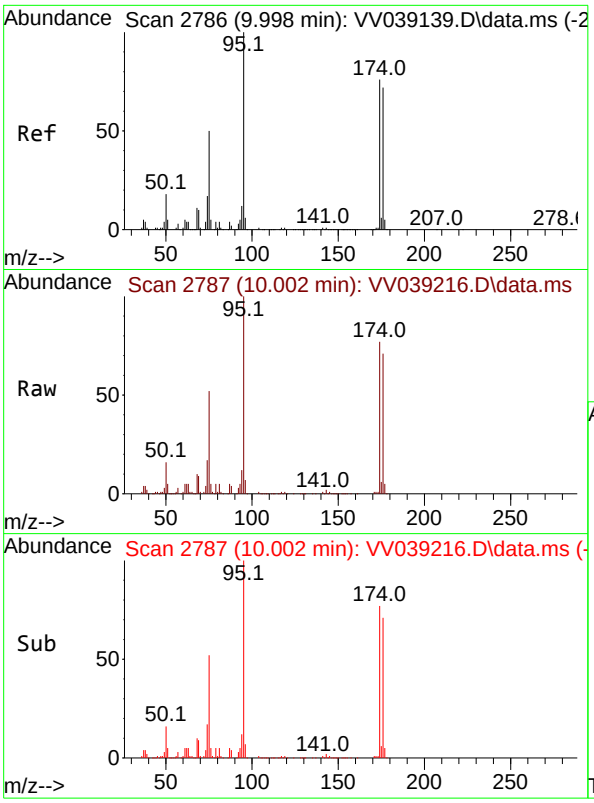


#50
Toluene-d8
Concen: 49.201 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 98 Resp: 687399

Ion	Ratio	Lower	Upper
98	100		
100	62.1	52.2	78.2



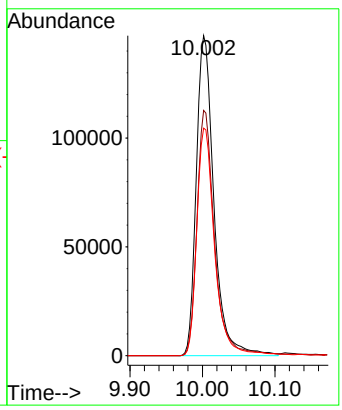


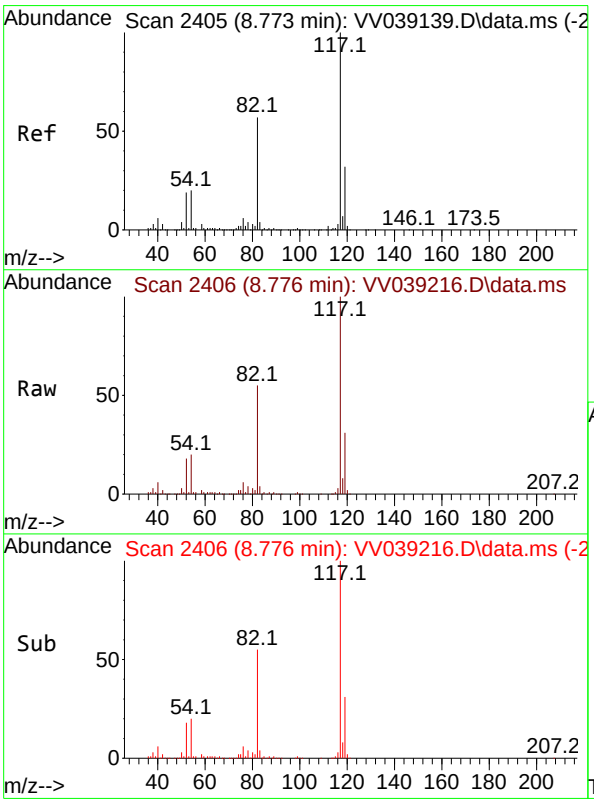
#62
4-Bromofluorobenzene
Concen: 43.284 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion: 95 Resp: 248948

Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	150.4
176	72.3	0.0	144.2

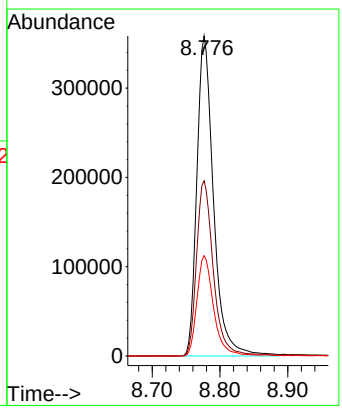


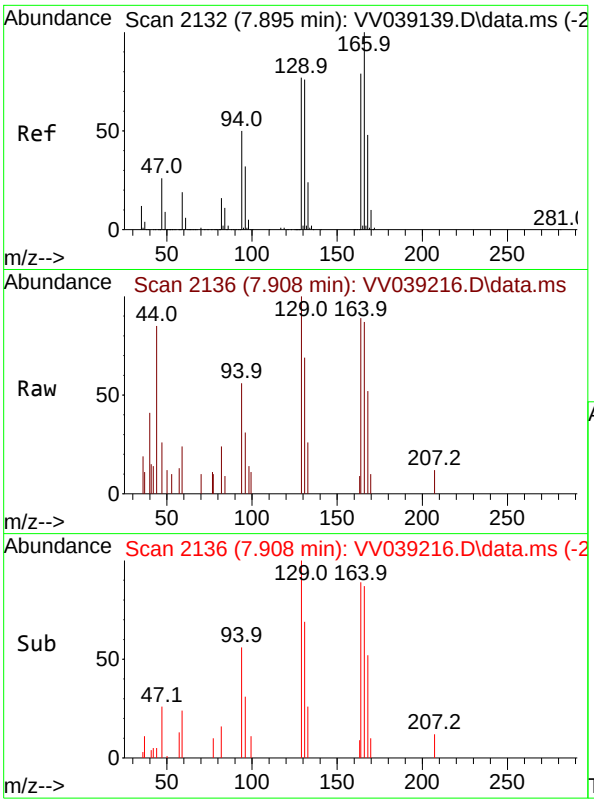


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion:117 Resp: 612863

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.4	68.2
119	31.4	25.6	38.4



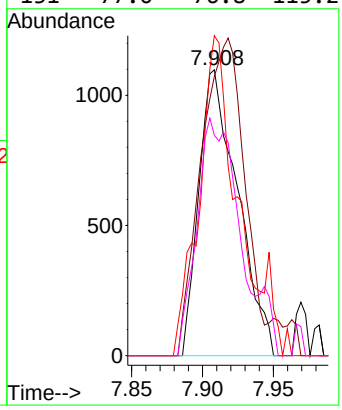


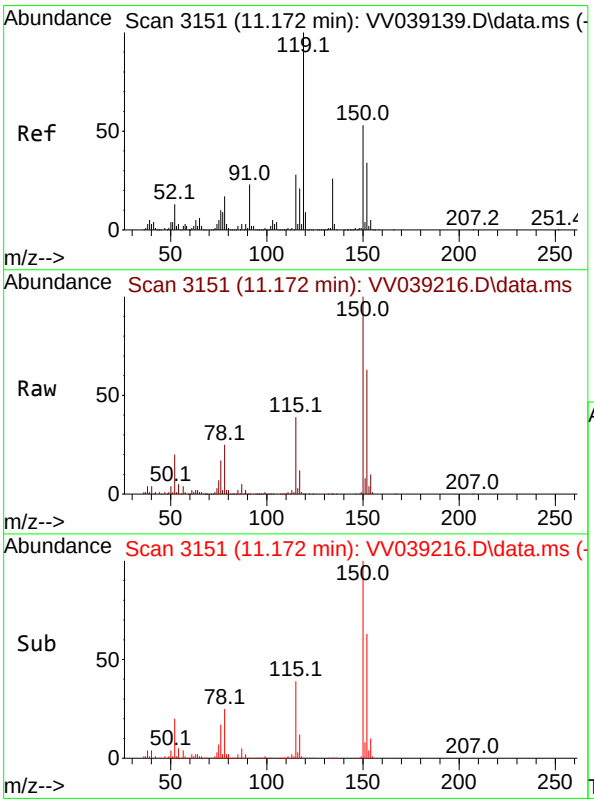
#64
Tetrachloroethene
Concen: 0.407 ug/l
RT: 7.908 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Tgt Ion:164 Resp: 2091

Ion	Ratio	Lower	Upper
164	100		
166	97.7	101.6	152.4#
129	101.8	78.5	117.7
131	77.0	76.8	115.2

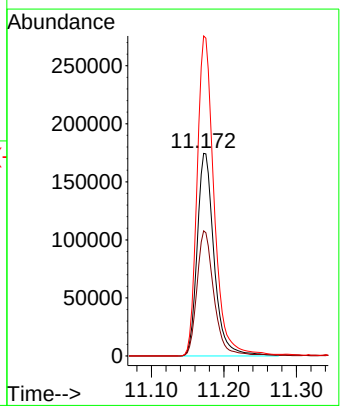




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion:152 Resp: 282611

Ion	Ratio	Lower	Upper
152	100		
115	61.7	44.8	134.4
150	159.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039216.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.098	11	18	50	rVB	1297140	1660196	1.95%	1.430%
2	1.915	260	272	309	rBV	3609837	6652617	7.82%	5.731%
3	2.082	309	324	396	rVB	41188431	85076012	100.00%	73.293%
4	4.507	1062	1078	1097	rBV3	436951	1231156	1.45%	1.061%
5	4.603	1097	1108	1144	rVB	387054	1077200	1.27%	0.928%
6	5.535	1386	1398	1433	rBV	594049	1413065	1.66%	1.217%
7	5.828	1473	1489	1536	rBV	5913360	12395813	14.57%	10.679%
8	7.240	1917	1928	1963	rBV	926623	1774872	2.09%	1.529%
9	8.776	2395	2406	2429	rBV	1058995	1820556	2.14%	1.568%
10	10.002	2773	2787	2827	rBV	714583	1247642	1.47%	1.075%
11	11.172	3141	3151	3184	rBV	1051124	1727411	2.03%	1.488%

Sum of corrected areas: 116076540

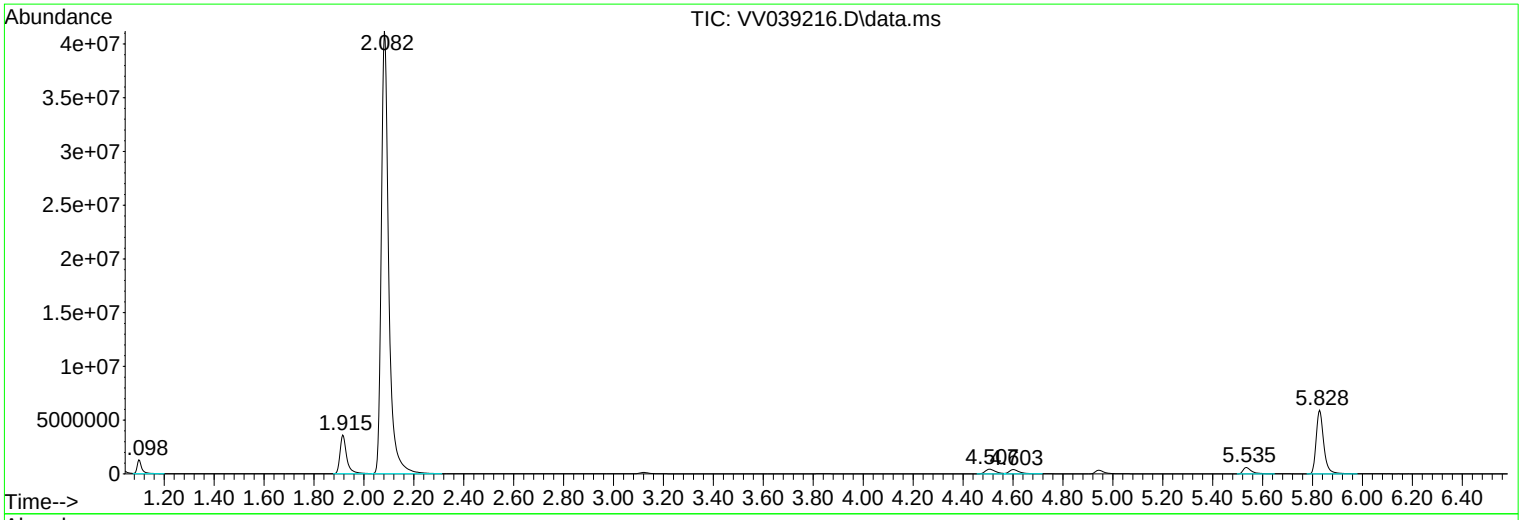
Sample Results: **VV039216.D**

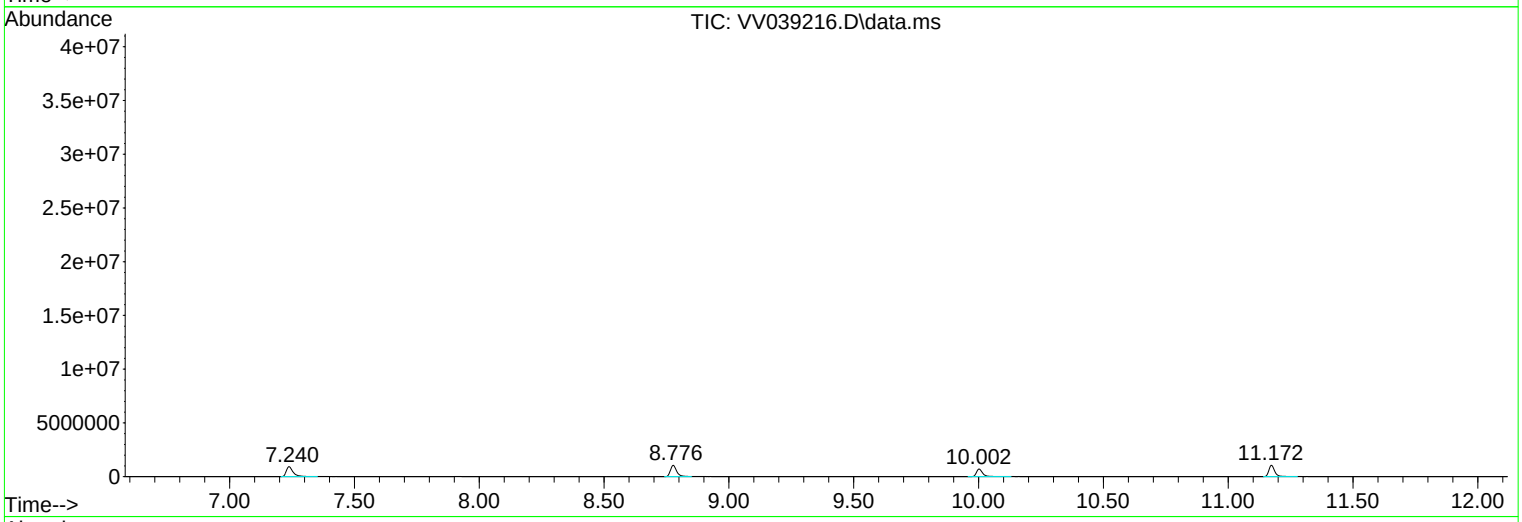
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

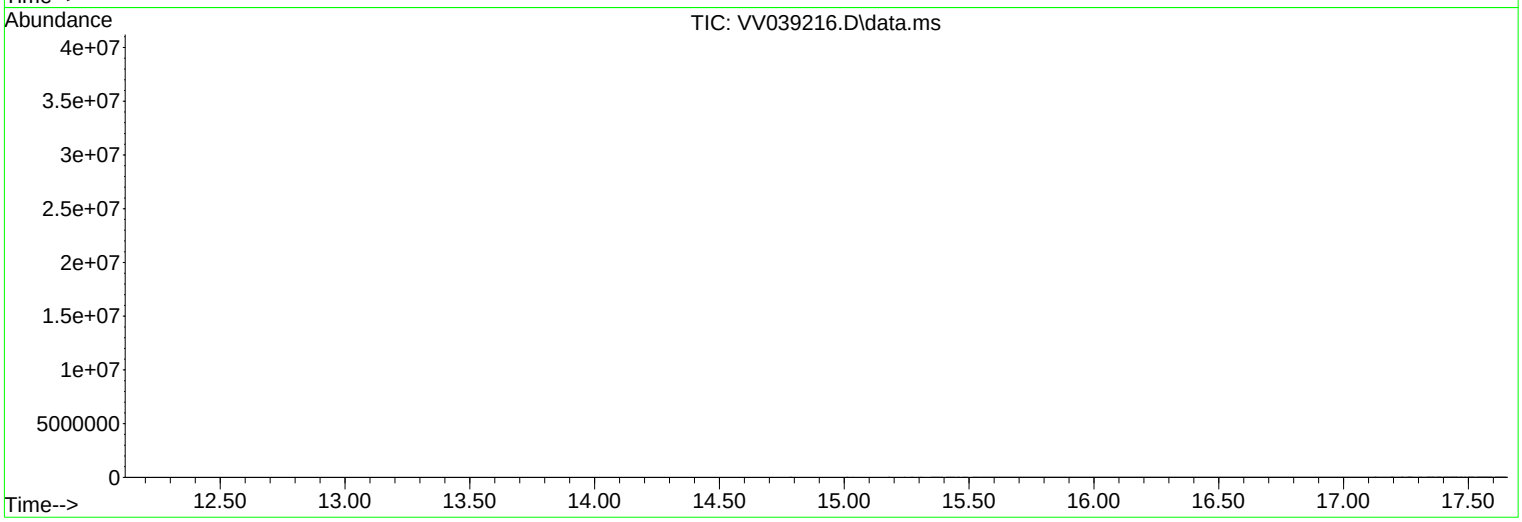
Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

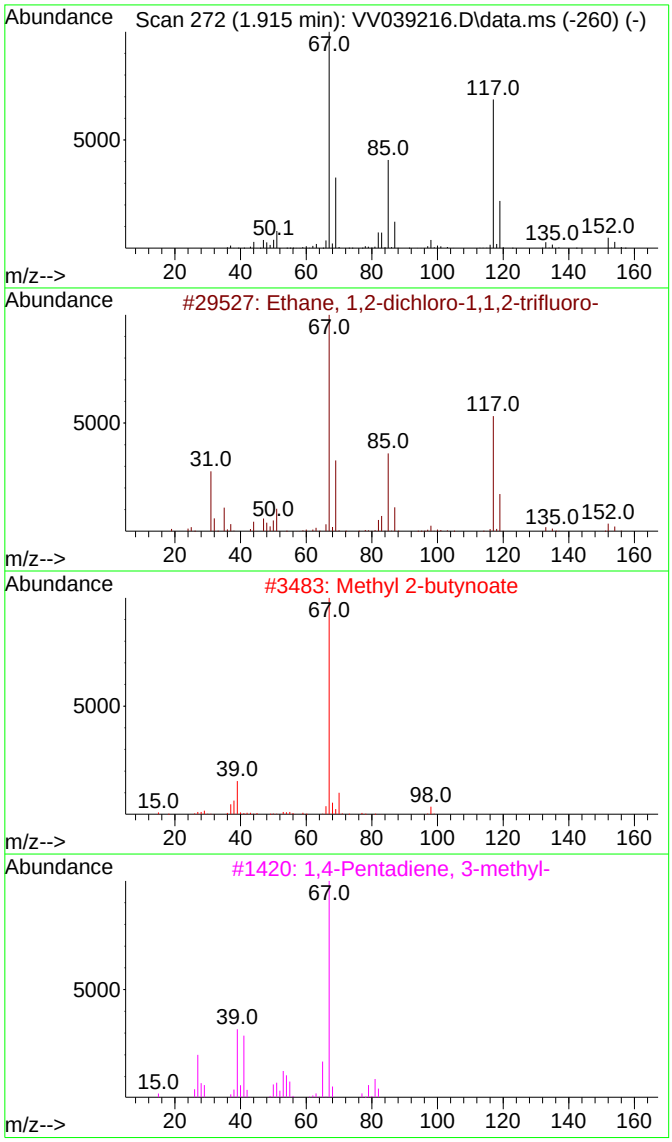
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

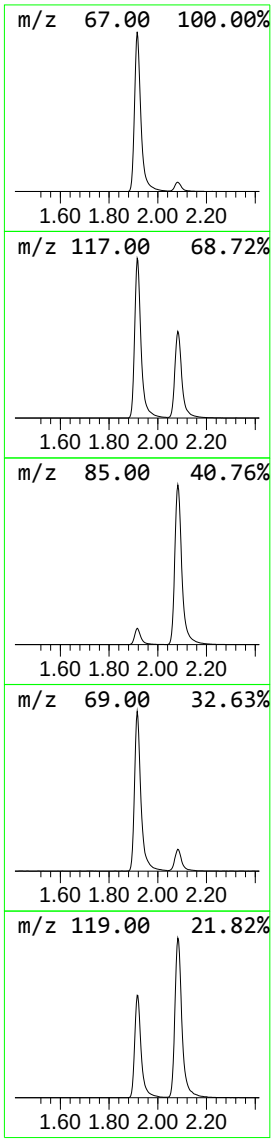
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.915	308.79 ug/l	6652620	Pentafluorobenzene	4.600

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2-dichloro-1,1,2-trifl...	152	C2HCl2F3	000354-23-4	91
2	Methyl 2-butynoate	98	C5H6O2	023326-27-4	9
3	1,4-Pentadiene, 3-methyl-	82	C6H10	001115-08-8	9
4	Cyclopropane, 1,2-dimethyl-3-met...	82	C6H10	062338-02-7	9
5	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	9





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethane, 1,2-dic...	1.915	308.8	ug/l	6652620	1	4.600	1077200	50.0

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825-FDDL	SDG No.:	Q3195
Lab Sample ID:	Q3195-17DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039231.D	50	09/29/25 15:01	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	22.6	JD	11.0	50.0	ug/L
74-87-3	Chloromethane	16.0	UD	16.0	50.0	ug/L
75-01-4	Vinyl Chloride	13.0	UD	13.0	50.0	ug/L
74-83-9	Bromomethane	72.0	UD	72.0	250	ug/L
75-00-3	Chloroethane	23.5	UD	23.5	50.0	ug/L
75-69-4	Trichlorofluoromethane	16.5	UD	16.5	50.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2400	D	12.5	50.0	ug/L
75-35-4	1,1-Dichloroethene	11.5	UD	11.5	50.0	ug/L
67-64-1	Acetone	75.5	UD	75.5	250	ug/L
75-15-0	Carbon Disulfide	10.5	UD	10.5	50.0	ug/L
1634-04-4	Methyl tert-butyl Ether	8.00	UD	8.00	50.0	ug/L
79-20-9	Methyl Acetate	13.5	UD	13.5	50.0	ug/L
75-09-2	Methylene Chloride	14.0	UD	14.0	50.0	ug/L
156-60-5	trans-1,2-Dichloroethene	11.5	UD	11.5	50.0	ug/L
75-34-3	1,1-Dichloroethane	11.5	UD	11.5	50.0	ug/L
110-82-7	Cyclohexane	72.5	UD	72.5	250	ug/L
78-93-3	2-Butanone	49.0	UD	49.0	250	ug/L
56-23-5	Carbon Tetrachloride	12.5	UD	12.5	50.0	ug/L
156-59-2	cis-1,2-Dichloroethene	9.50	UD	9.50	50.0	ug/L
74-97-5	Bromochloromethane	11.0	UD	11.0	50.0	ug/L
67-66-3	Chloroform	12.5	UD	12.5	50.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	UD	10.0	50.0	ug/L
108-87-2	Methylcyclohexane	8.00	UD	8.00	50.0	ug/L
71-43-2	Benzene	7.50	UD	7.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	11.0	UD	11.0	50.0	ug/L
79-01-6	Trichloroethene	250	D	4.70	50.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	UD	10.0	50.0	ug/L
75-27-4	Bromodichloromethane	11.0	UD	11.0	50.0	ug/L
108-10-1	4-Methyl-2-Pentanone	34.0	UDQ	34.0	250	ug/L
108-88-3	Toluene	7.00	UDQ	7.00	50.0	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825-FDDL	SDG No.:	Q3195
Lab Sample ID:	Q3195-17DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039231.D	50	09/29/25 15:01	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	8.50	UD	8.50	50.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	8.00	UD	8.00	50.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.5	UD	10.5	50.0	ug/L
591-78-6	2-Hexanone	44.5	UD	44.5	250	ug/L
124-48-1	Dibromochloromethane	9.00	UD	9.00	50.0	ug/L
106-93-4	1,2-Dibromoethane	7.50	UDQ	7.50	50.0	ug/L
127-18-4	Tetrachloroethene	11.5	UD	11.5	50.0	ug/L
108-90-7	Chlorobenzene	6.00	UD	6.00	50.0	ug/L
100-41-4	Ethyl Benzene	6.50	UD	6.50	50.0	ug/L
179601-23-1	m/p-Xylenes	12.0	UDQ	12.0	100	ug/L
95-47-6	o-Xylene	6.00	UD	6.00	50.0	ug/L
100-42-5	Styrene	7.50	UD	7.50	50.0	ug/L
75-25-2	Bromoform	9.50	UDQ	9.50	50.0	ug/L
98-82-8	Isopropylbenzene	6.00	UD	6.00	50.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	13.0	UD	13.0	50.0	ug/L
541-73-1	1,3-Dichlorobenzene	8.00	UD	8.00	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	9.50	UD	9.50	50.0	ug/L
95-50-1	1,2-Dichlorobenzene	8.00	UD	8.00	50.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	26.5	UD	26.5	50.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	UD	10.0	50.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	10.0	UD	10.0	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	56.6		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	456000	4.6			
540-36-3	1,4-Difluorobenzene	804000	5.535			
3114-55-4	Chlorobenzene-d5	820000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	405000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/18/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-31D-091825-FDDL	SDG No.:	Q3195
Lab Sample ID:	Q3195-17DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039231.D	50	09/29/25 15:01	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039231.D
Acq On : 29 Sep 2025 15:01
Operator : SY/MD
Sample : Q3195-17DL 50X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Quant Time: Sep 30 01:26:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

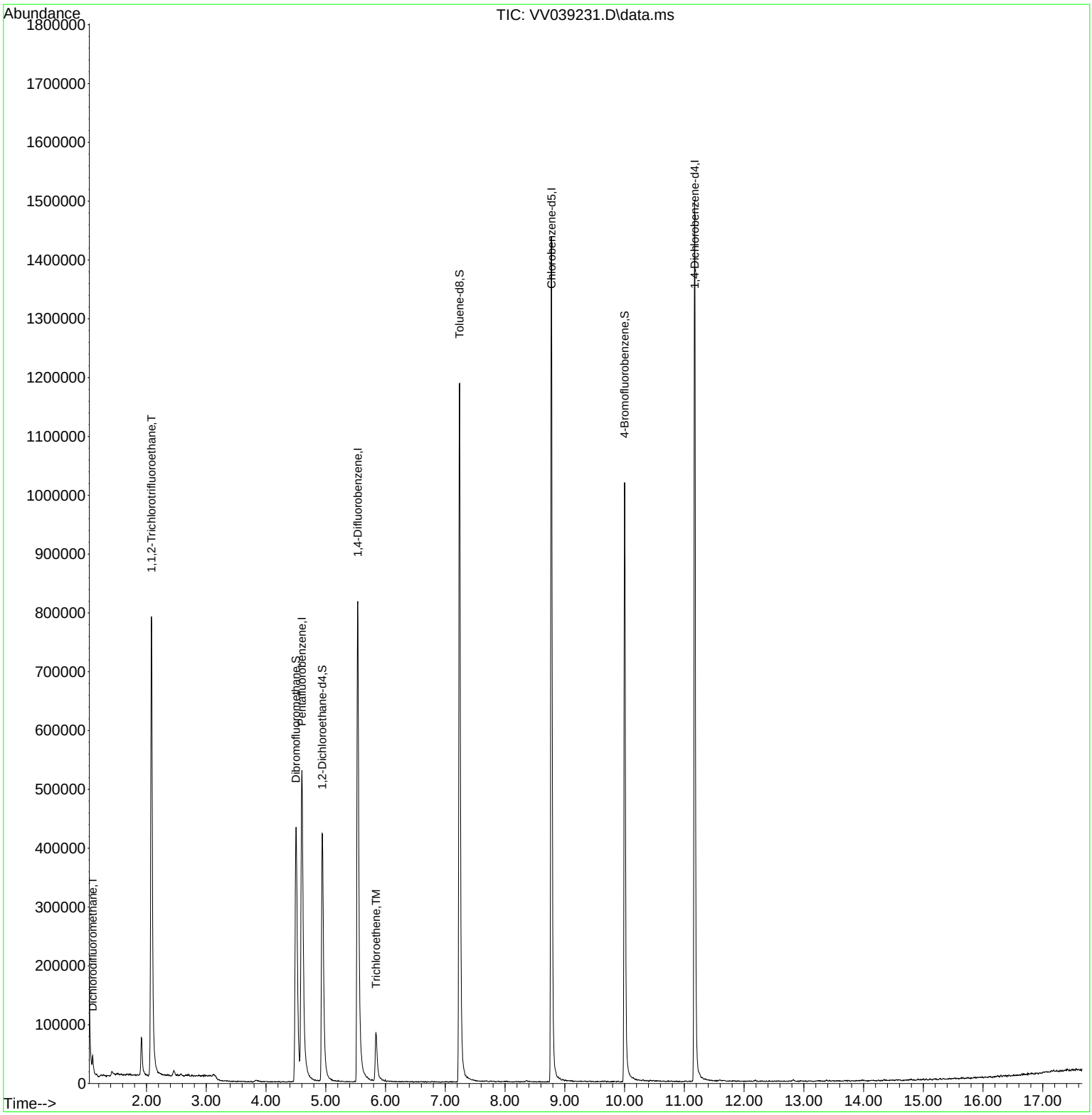
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	456320	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	803964	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	819993	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	404883	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	374781	56.748	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 113.500%			
35) Dibromofluoromethane	4.503	113	365689	56.580	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 113.160%			
50) Toluene-d8	7.239	98	869335	45.797	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.600%			
62) 4-Bromofluorobenzene	10.001	95	353271	45.207	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.098	85	3260	0.451	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.082	101	348662	48.752	ug/l	97
44) Trichloroethene	5.841	130	36388	4.956	ug/l	100

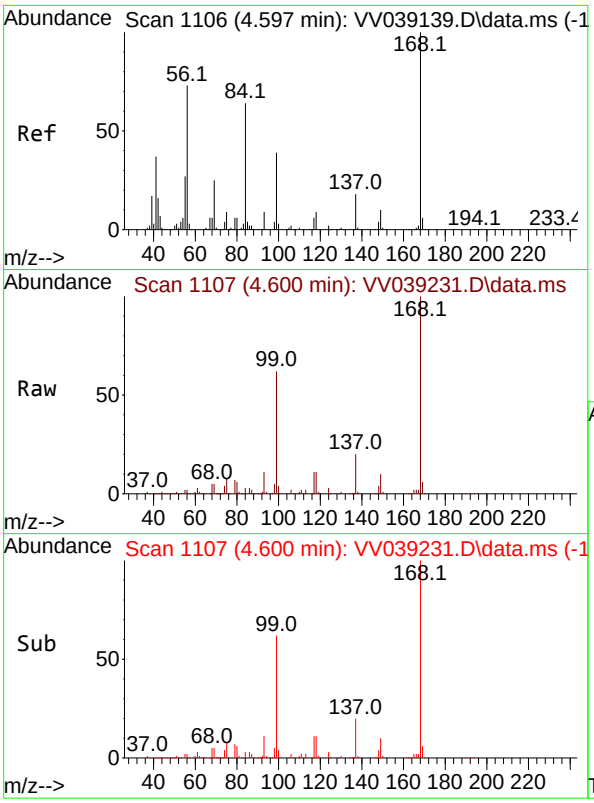
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039231.D
Acq On : 29 Sep 2025 15:01
Operator : SY/MD
Sample : Q3195-17DL 50X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Quant Time: Sep 30 01:26:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



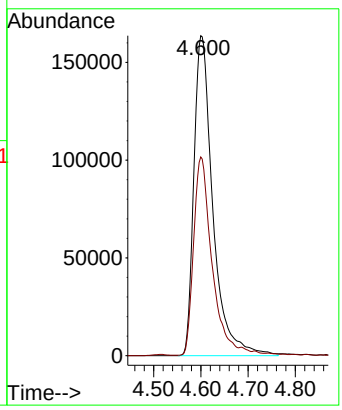


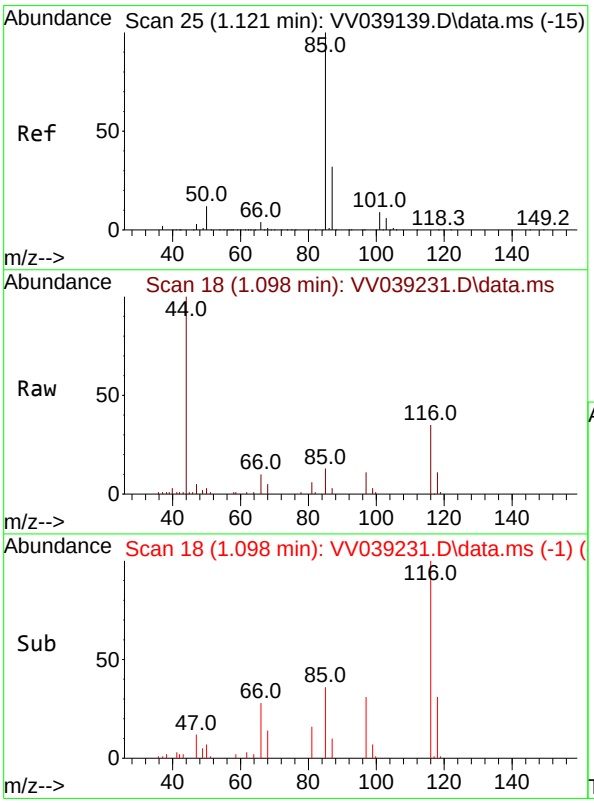
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Tgt Ion:168 Resp: 456320

Ion	Ratio	Lower	Upper
168	100		
99	62.0	49.6	74.4

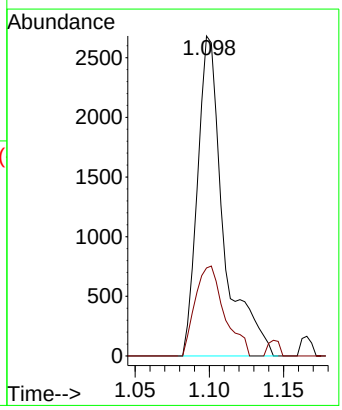


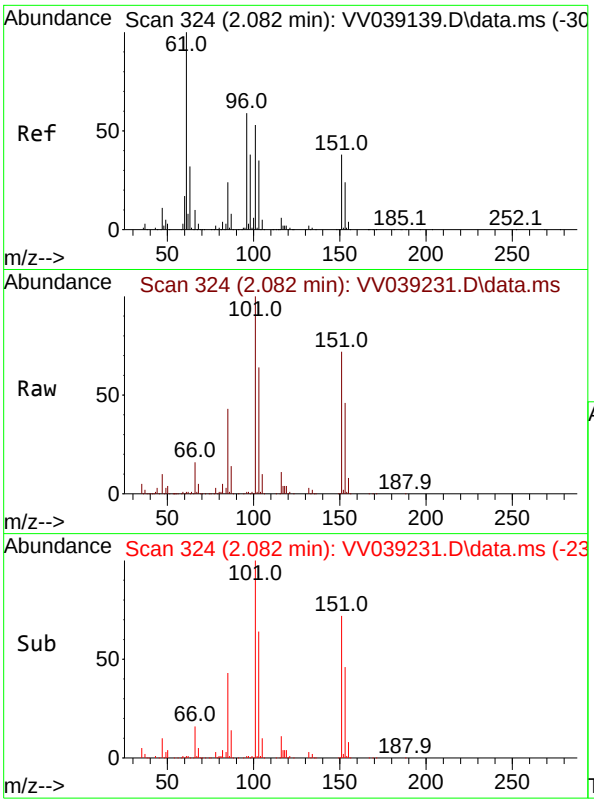


#2
Dichlorodifluoromethane
Concen: 0.451 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion: 85 Resp: 3260

Ion	Ratio	Lower	Upper
85	100		
87	27.5	16.0	47.9



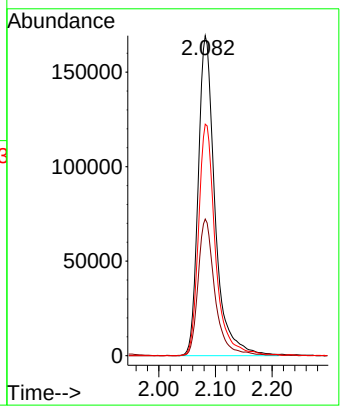


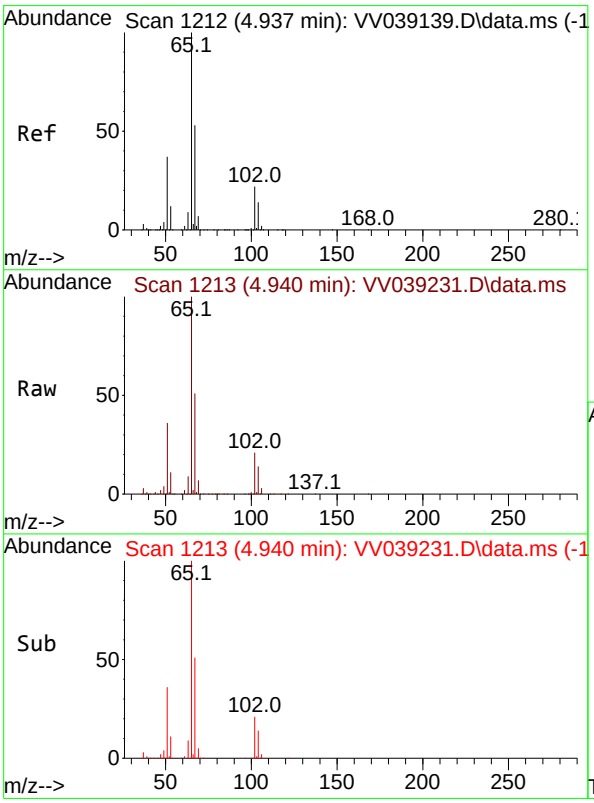
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.752 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Tgt Ion:101 Resp: 348662

Ion	Ratio	Lower	Upper
101	100		
85	43.0	36.2	54.2
151	72.8	56.3	84.5

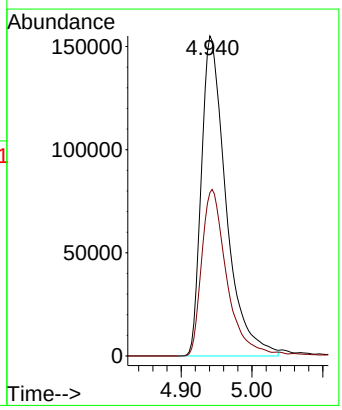


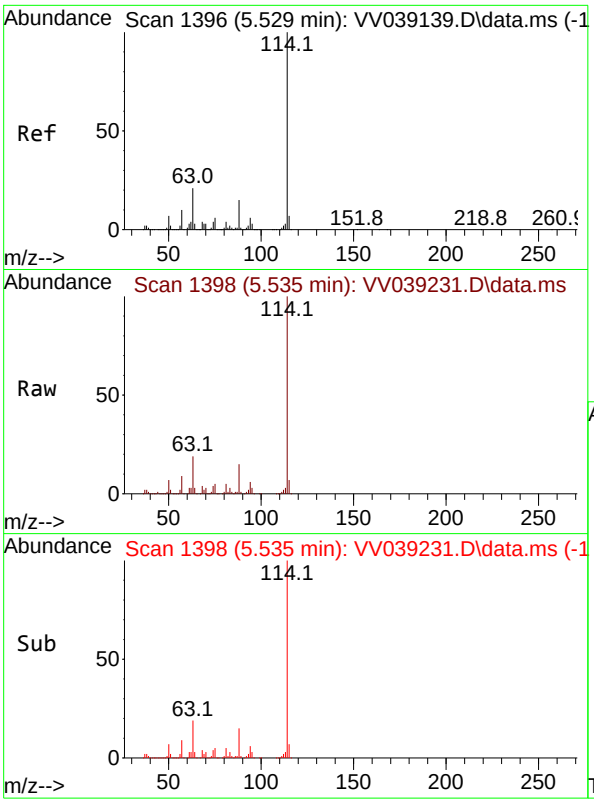


#33
1,2-Dichloroethane-d4
Concen: 56.748 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion: 65 Resp: 374781

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.0



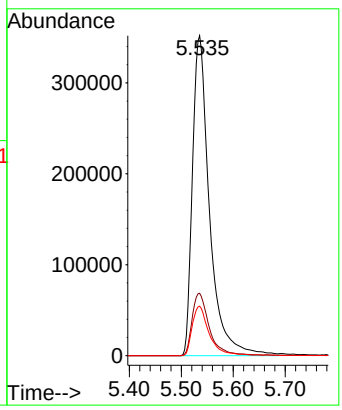


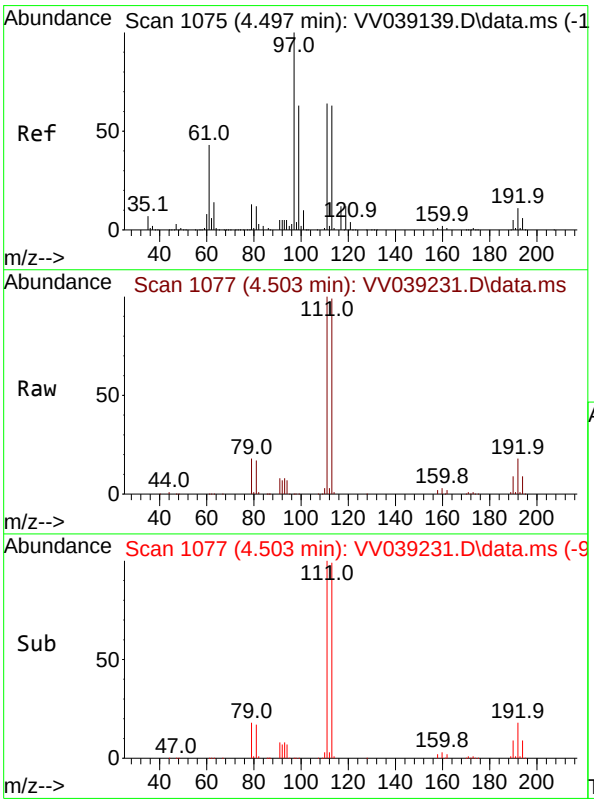
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Tgt Ion:114 Resp: 803964

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	42.6
88	15.5	0.0	30.8

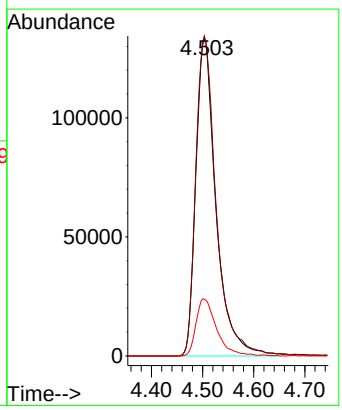


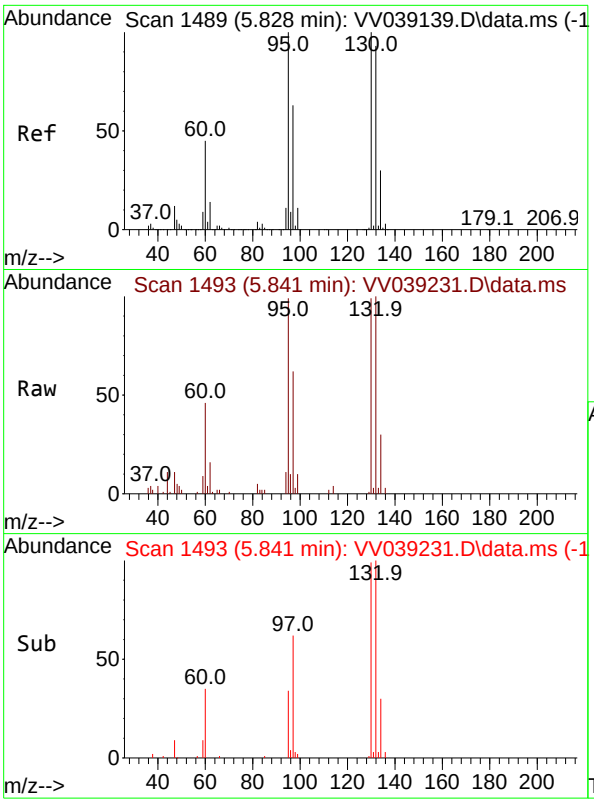


#35
Dibromofluoromethane
Concen: 56.580 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion:113 Resp: 365689

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.4	123.6
192	18.3	13.8	20.8



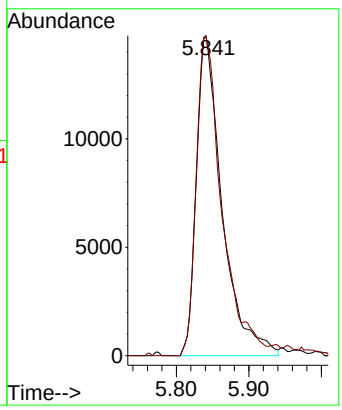


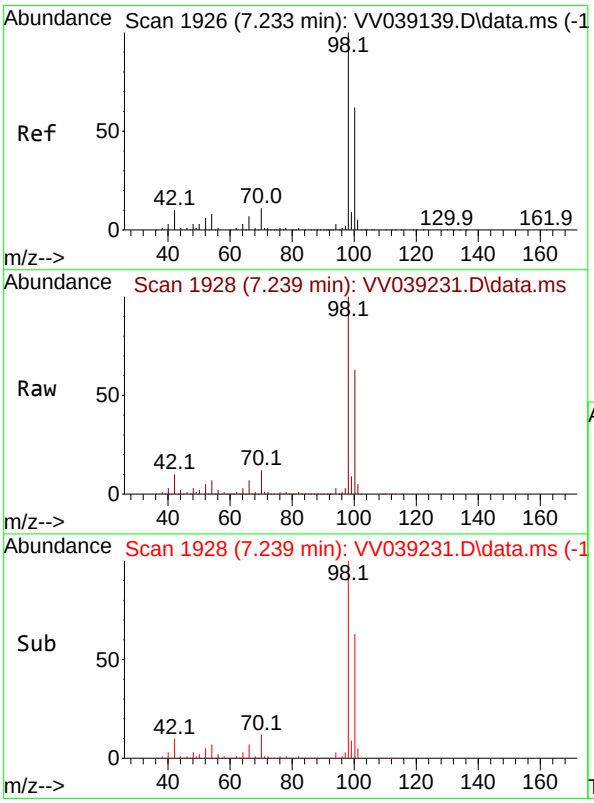
#44
Trichloroethene
Concen: 4.956 ug/l
RT: 5.841 min Scan# 14
Delta R.T. 0.013 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Tgt Ion:130 Resp: 36388

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	199.2

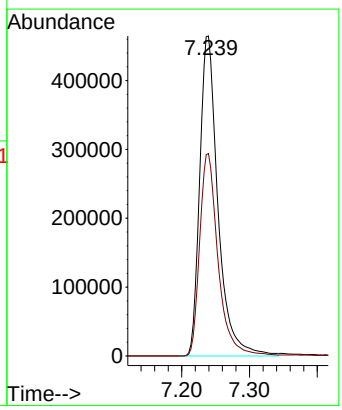


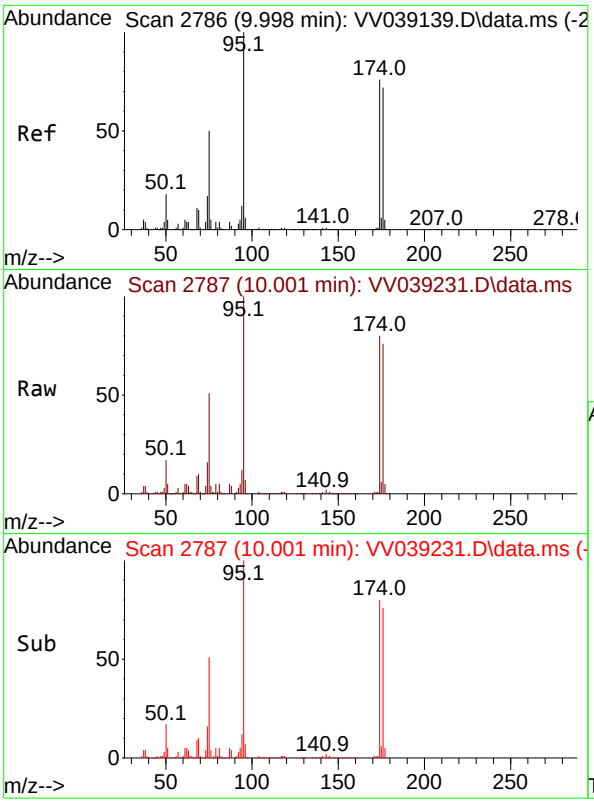


#50
Toluene-d8
Concen: 45.797 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion: 98 Resp: 869335

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.2	78.2



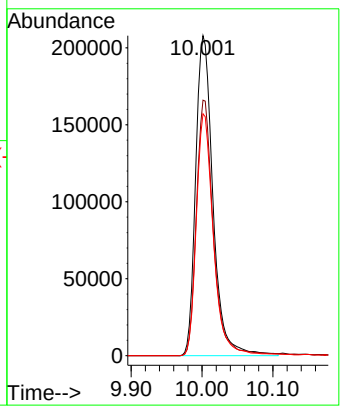


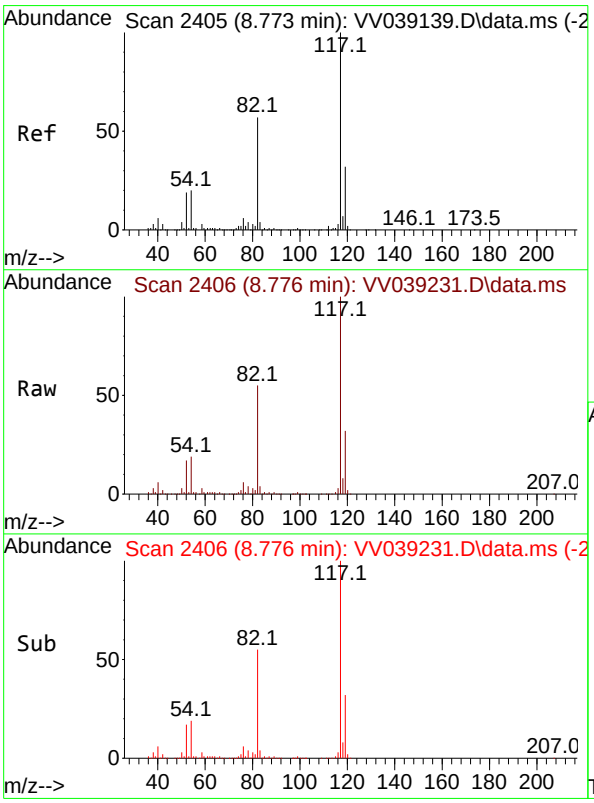
#62
4-Bromofluorobenzene
Concen: 45.207 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Tgt Ion: 95 Resp: 353271

Ion	Ratio	Lower	Upper
95	100		
174	78.9	0.0	150.4
176	74.8	0.0	144.2

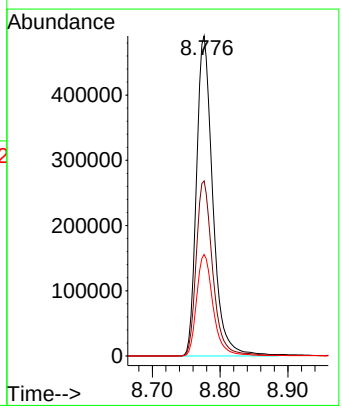


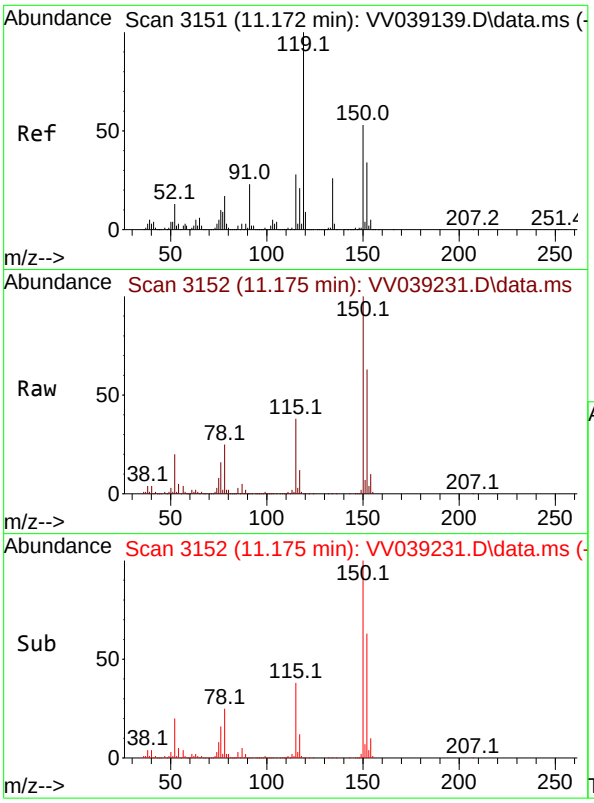


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion:117 Resp: 819993

Ion	Ratio	Lower	Upper
117	100		
82	54.7	45.4	68.2
119	31.7	25.6	38.4



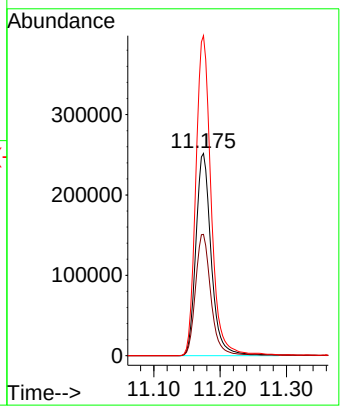


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Instrument :
MSVOA_V
ClientSampleId :
MW-31D-091825-FDDL

Tgt Ion:152 Resp: 404883

Ion	Ratio	Lower	Upper
152	100		
115	60.7	44.8	134.4
150	156.6	0.0	353.8



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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-32S-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039227.D	1	09/29/25 13:31	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.52	J	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	UQ	0.68	5.00	ug/L
108-88-3	Toluene	0.14	UQ	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-32S-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039227.D	1	09/29/25 13:31	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	UQ	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.80	J	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	UQ	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	UQ	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.0		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	45.7		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	475000	4.6			
540-36-3	1,4-Difluorobenzene	811000	5.535			
3114-55-4	Chlorobenzene-d5	825000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	413000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-32S-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039227.D	1	09/29/25 13:31	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 30 01:25:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	474559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	811077	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	824686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	412882	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	370844	53.994	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 107.980%			
35) Dibromofluoromethane	4.503	113	356197	54.628	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 109.260%			
50) Toluene-d8	7.239	98	875398	45.711	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.420%			
62) 4-Bromofluorobenzene	10.001	95	361112	45.805	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 91.600%			
Target Compounds						Qvalue
44) Trichloroethene	5.860	130	3859m	0.521	ug/l	
64) Tetrachloroethene	7.905	164	5510	0.798	ug/l #	86

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

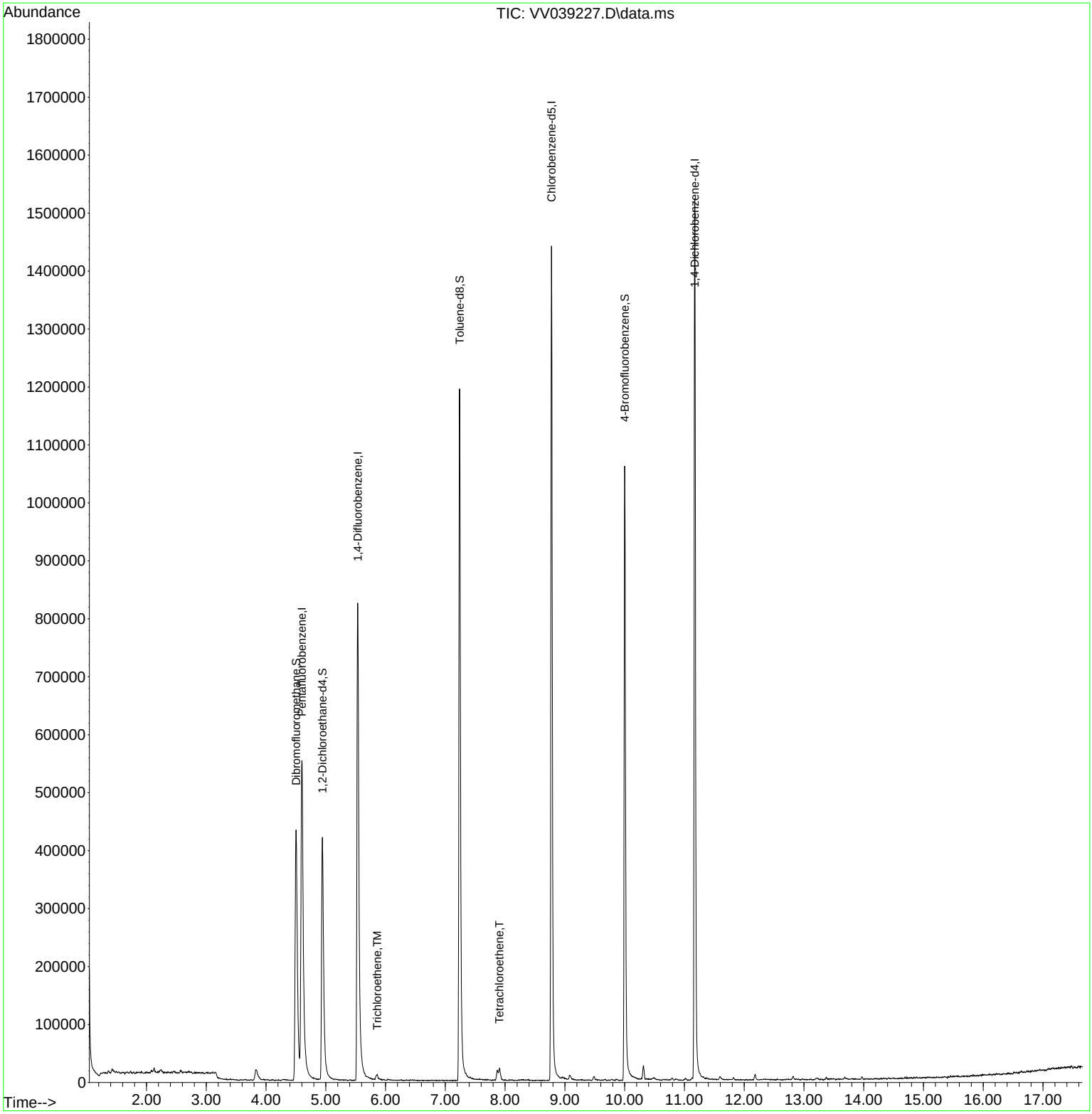
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

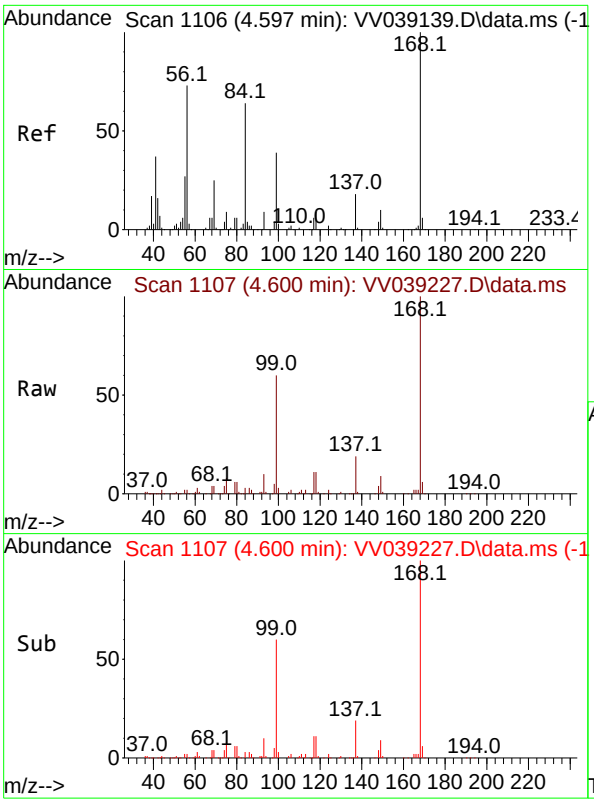
Quant Time: Sep 30 01:25:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

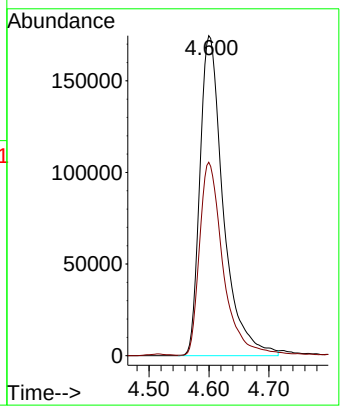




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:168 Resp: 47455

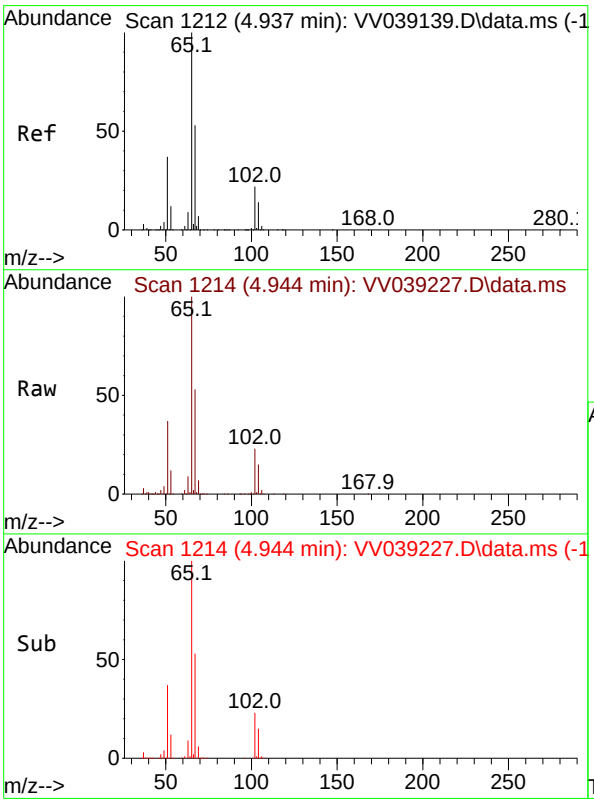
Ion	Ratio	Lower	Upper
168	100		
99	60.3	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Manual Integrations
APPROVED

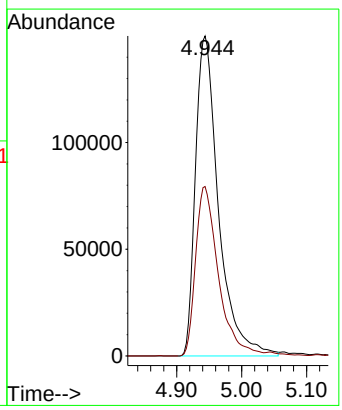
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

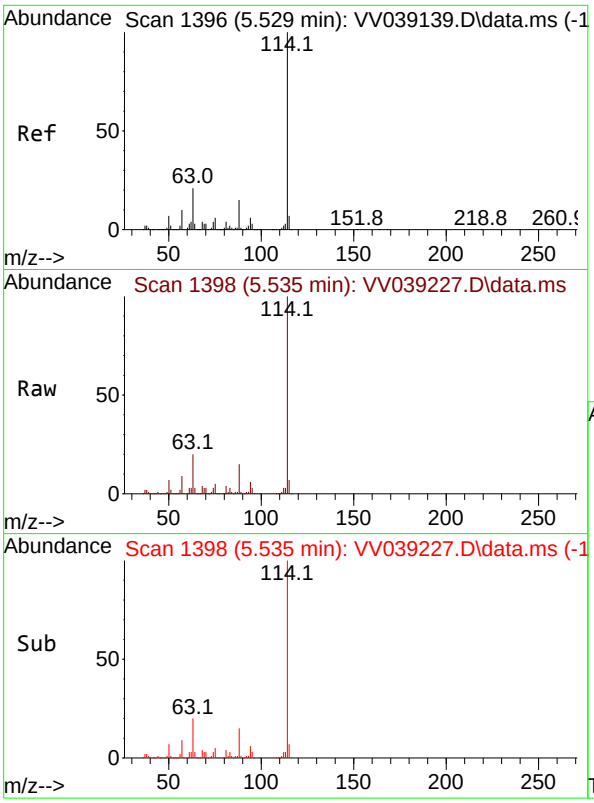


#33
1,2-Dichloroethane-d4
Concen: 53.994 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 65 Resp: 370844

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	107.0

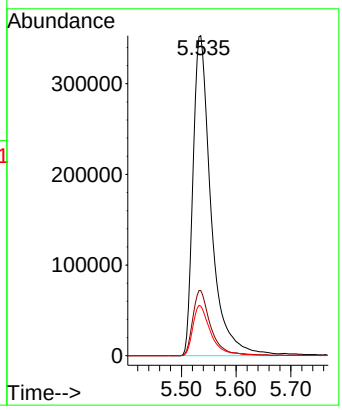




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:114 Resp: 81107

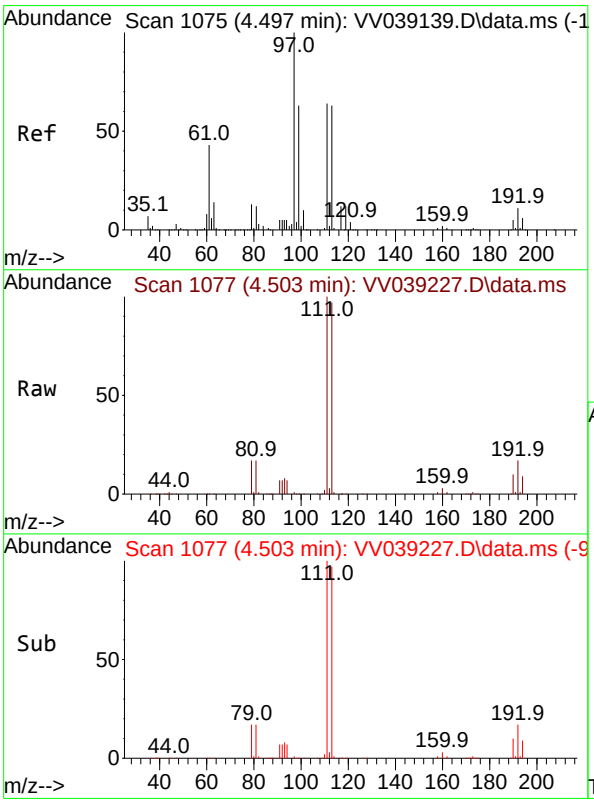
Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	15.5	0.0	30.8



Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Manual Integrations
APPROVED

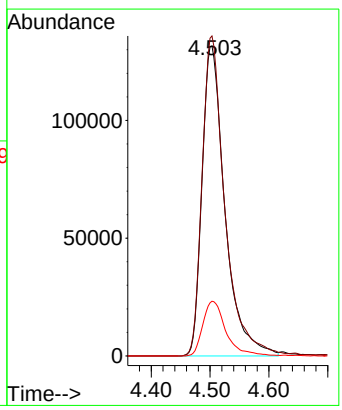
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

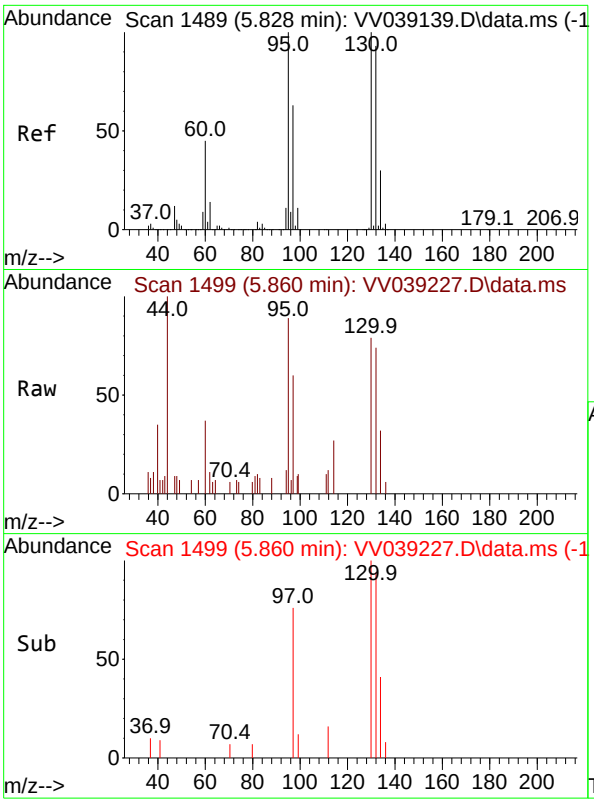


#35
Dibromofluoromethane
Concen: 54.628 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:113 Resp: 356197

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	17.8	13.8	20.8

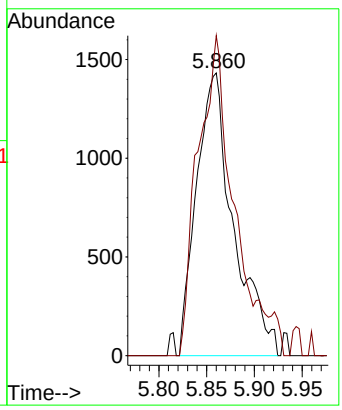




#44
Trichloroethene
Concen: 0.521 ug/l m
RT: 5.860 min Scan# 14
Delta R.T. 0.032 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:130 Resp: 385

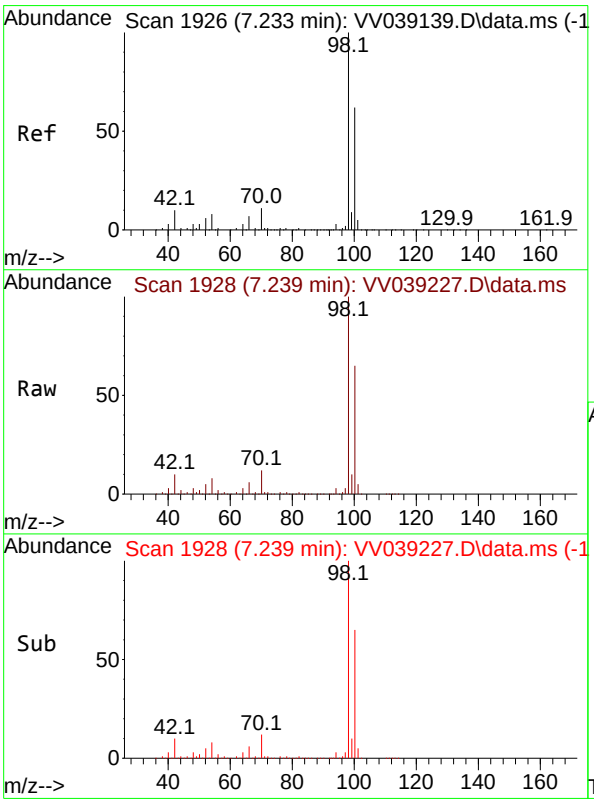
Ion	Ratio	Lower	Upper
130	100		
95	113.2	0.0	199.2



Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Manual Integrations
APPROVED

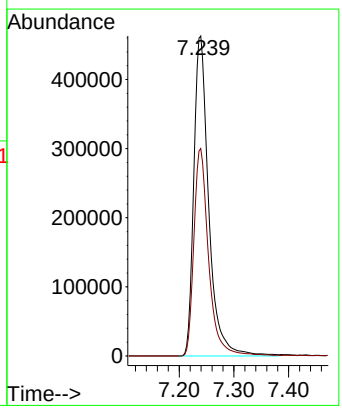
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

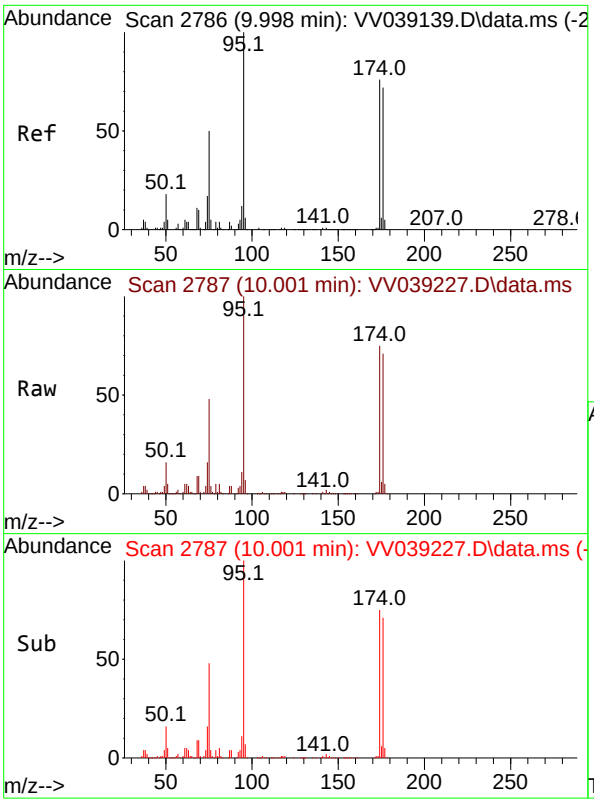


#50
Toluene-d8
Concen: 45.711 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 98 Resp: 875398

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2

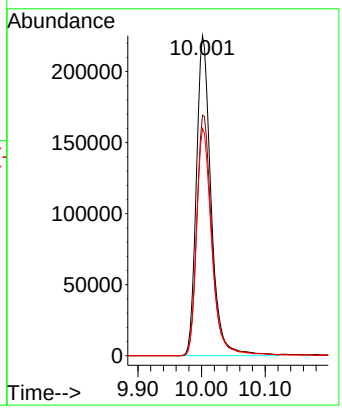




#62
4-Bromofluorobenzene
Concen: 45.805 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 95 Resp: 36111

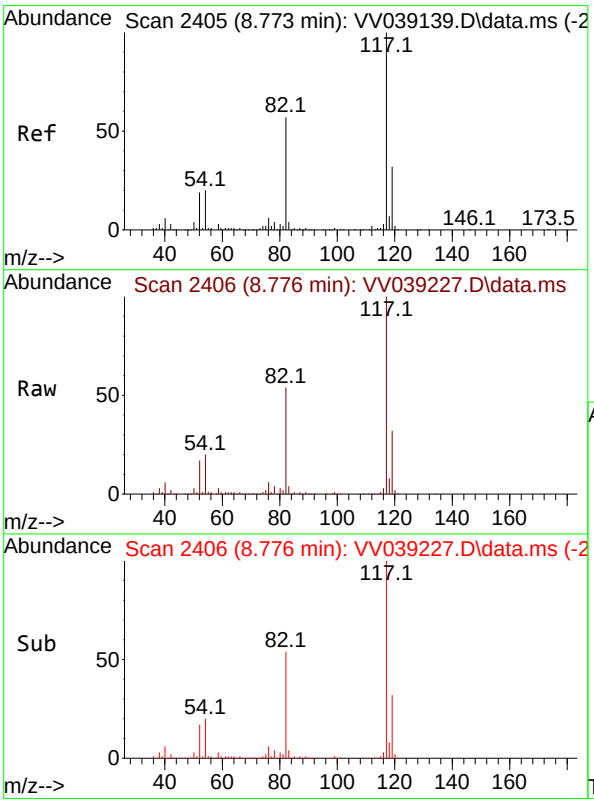
Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	150.4
176	72.9	0.0	144.2



Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Manual Integrations
APPROVED

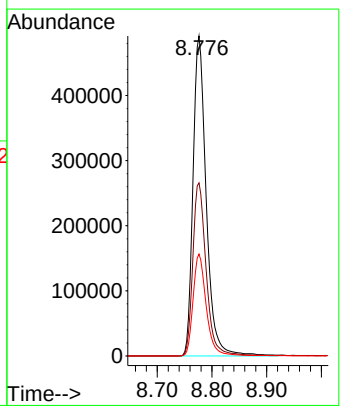
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

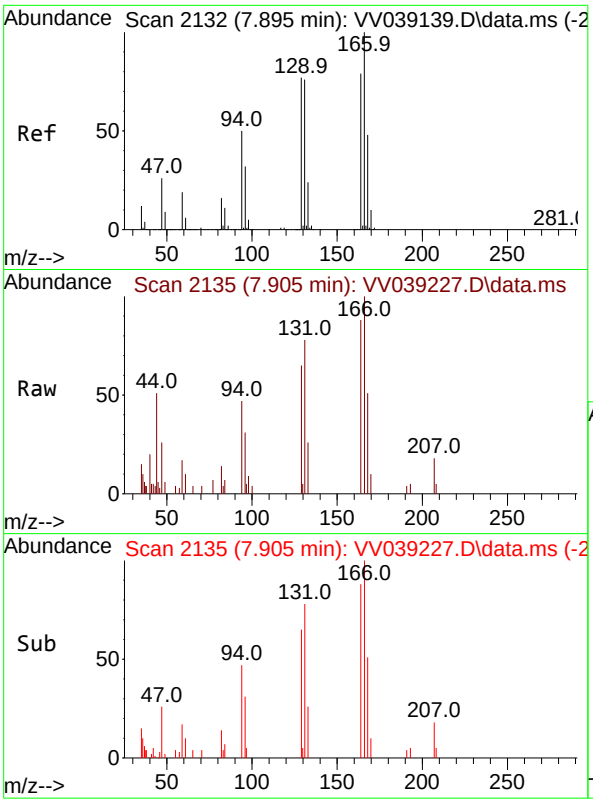


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:117 Resp: 824686

Ion	Ratio	Lower	Upper
117	100		
82	54.1	45.4	68.2
119	31.8	25.6	38.4

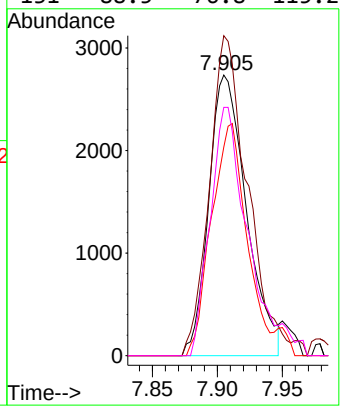




#64
Tetrachloroethene
Concen: 0.798 ug/l
RT: 7.905 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:164 Resp: 551

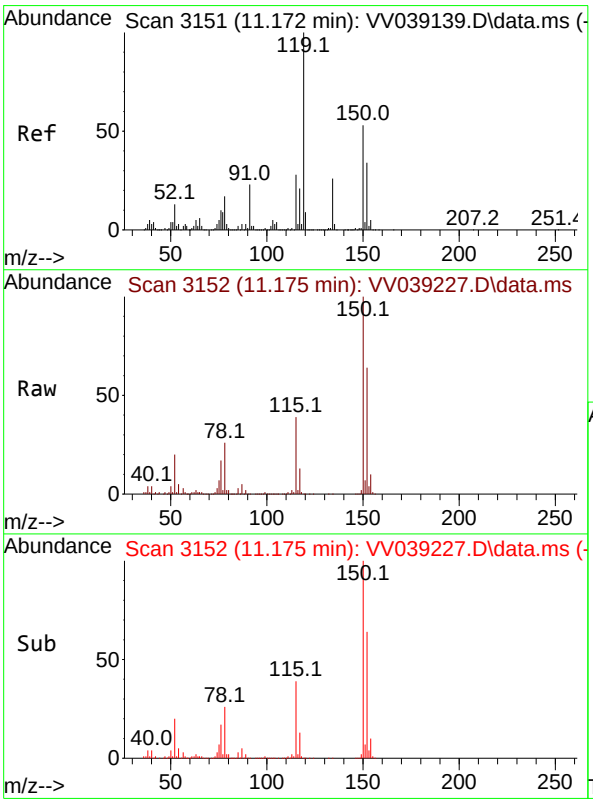
Ion	Ratio	Lower	Upper
164	100		
166	114.0	101.6	152.4
129	74.3	78.5	117.7#
131	88.5	76.8	115.2



Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Manual Integrations
APPROVED

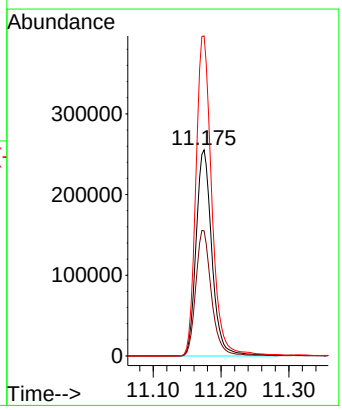
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:152 Resp: 412882

Ion	Ratio	Lower	Upper
152	100		
115	60.6	44.8	134.4
150	156.5	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039227.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.828	851	867	869	rBV2	18560	27585	1.12%	0.188%
2	4.503	1062	1077	1095	rBV2	432276	1127253	45.81%	7.675%
3	4.600	1095	1107	1157	rVB	548438	1538324	62.51%	10.474%
4	4.944	1202	1214	1255	rBV	417726	1031067	41.90%	7.021%
5	5.532	1383	1397	1432	rBV	823894	1918513	77.96%	13.063%
6	7.239	1916	1928	1959	rBV	1193351	2271263	92.29%	15.465%
7	7.870	2114	2124	2129	rBV3	17444	31377	1.28%	0.214%
8	7.905	2131	2135	2147	rVB5	19588	33901	1.38%	0.231%
9	8.776	2394	2406	2441	rBV	1439377	2452173	99.64%	16.697%
10	10.001	2776	2787	2816	rBV	1060210	1756499	71.38%	11.960%
11	10.313	2876	2884	2893	rVB4	22822	37513	1.52%	0.255%
12	11.172	3141	3151	3177	rBV	1517683	2460930	100.00%	16.757%

Sum of corrected areas: 14686398

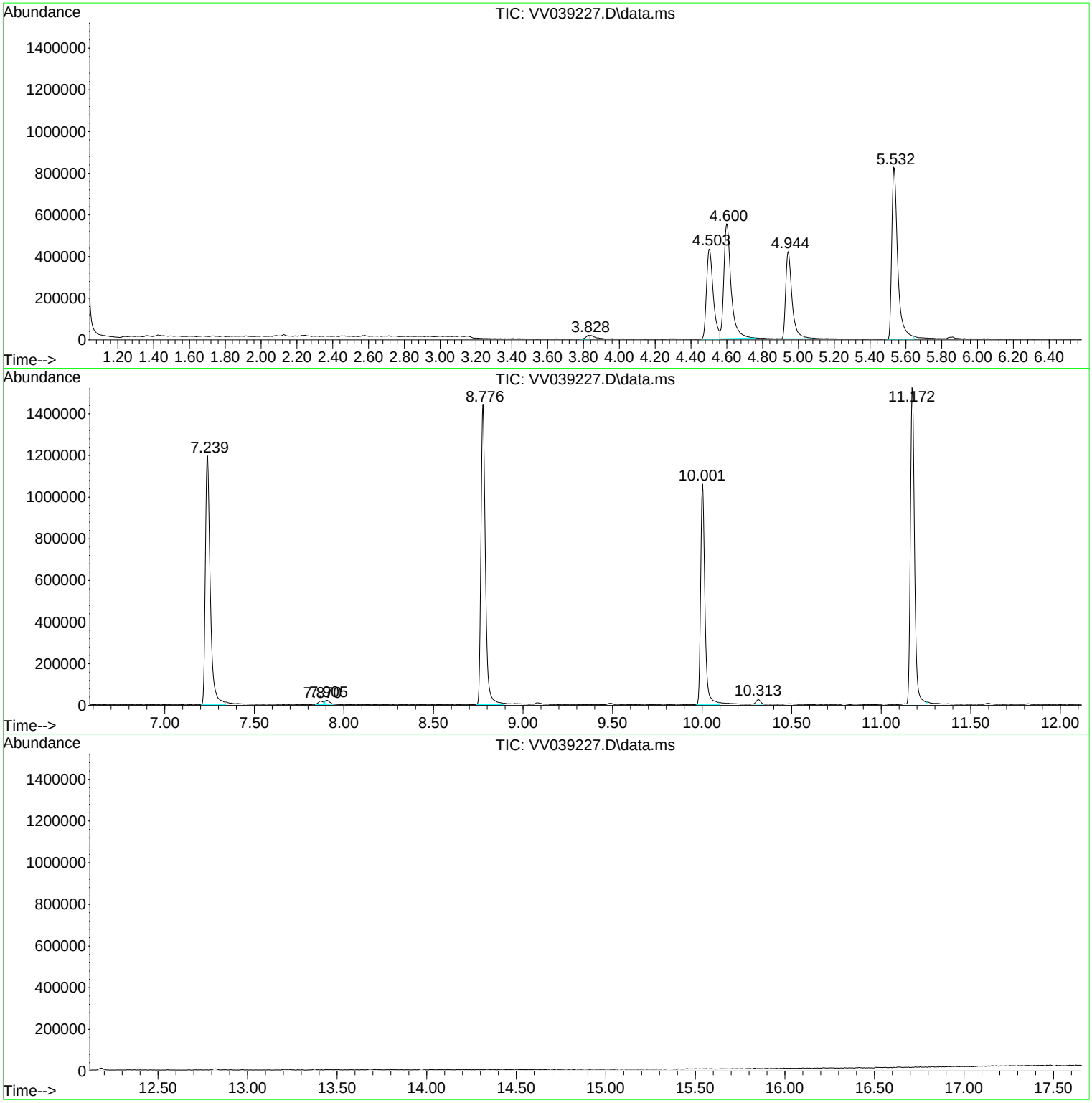
Sample Results: **VV039227.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-32S-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-19	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039228.D	1	09/29/25 13:53	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	7.90		0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.30		0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	5.50		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	UQ	0.68	5.00	ug/L
108-88-3	Toluene	0.14	UQ	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-19	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039228.D	1	09/29/25 13:53	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	UQ	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.40		0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	UQ	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	UQ	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		75 - 124	108%	SPK: 50
2037-26-5	Toluene-d8	45.4		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.9		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	463000	4.6			
540-36-3	1,4-Difluorobenzene	797000	5.535			
3114-55-4	Chlorobenzene-d5	801000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	399000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725	SDG No.:	Q3195
Lab Sample ID:	Q3195-19	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039228.D	1	09/29/25 13:53	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Quant Time: Sep 30 01:25:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

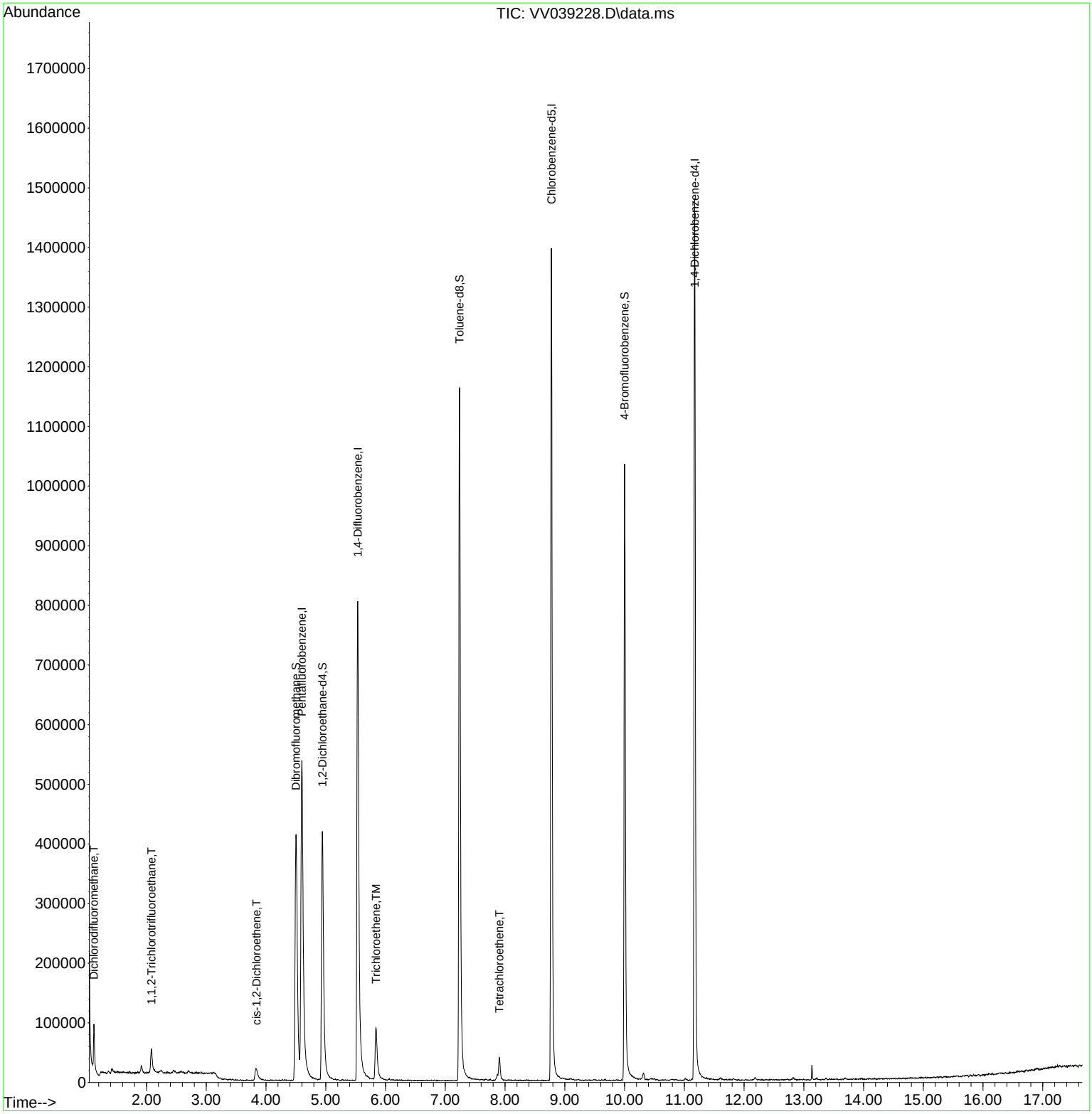
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	463190	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	796521	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	800959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	398638	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	371910	55.478	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 110.960%			
35) Dibromofluoromethane	4.503	113	347020	54.193	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 108.380%			
50) Toluene-d8	7.240	98	853418	45.378	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.760%			
62) 4-Bromofluorobenzene	10.001	95	347720	44.912	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	57633	7.860	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	15154	2.088	ug/l	94
27) cis-1,2-Dichloroethene	3.841	96	11015	1.343	ug/l	77
44) Trichloroethene	5.841	130	39693	5.456	ug/l	96
64) Tetrachloroethene	7.905	164	9414	1.403	ug/l	96

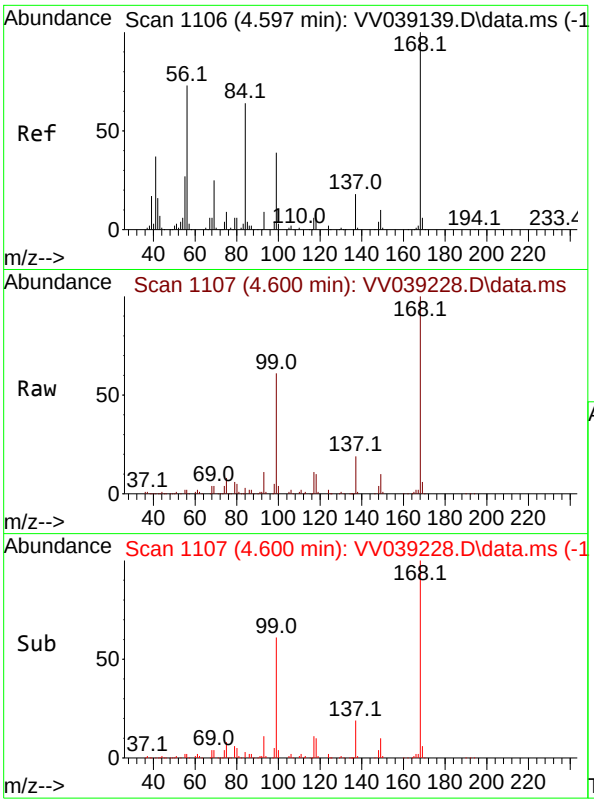
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Quant Time: Sep 30 01:25:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



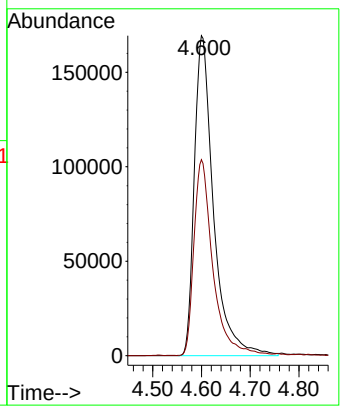


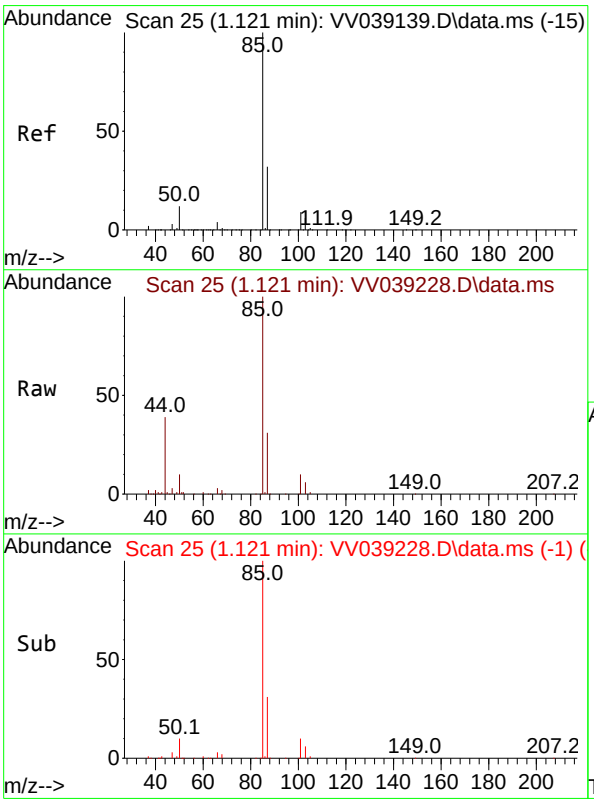
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Tgt Ion:168 Resp: 463190

Ion	Ratio	Lower	Upper
168	100		
99	61.2	49.6	74.4

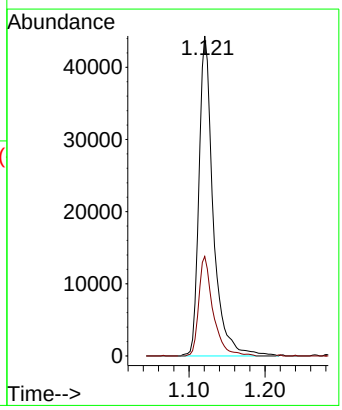


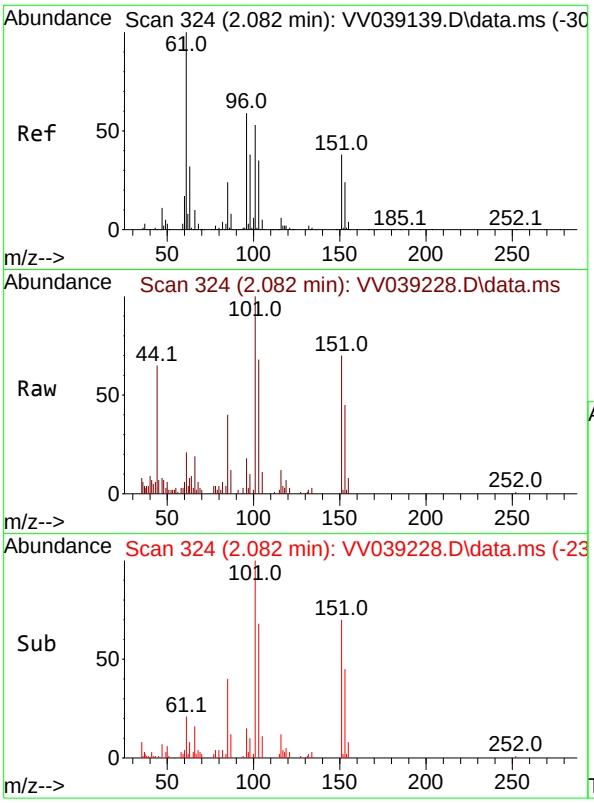


#2
Dichlorodifluoromethane
Concen: 7.860 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 85 Resp: 57633

Ion	Ratio	Lower	Upper
85	100		
87	31.1	16.0	47.9



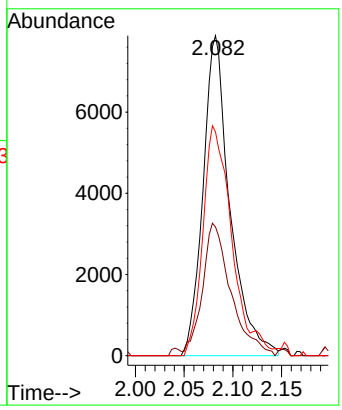


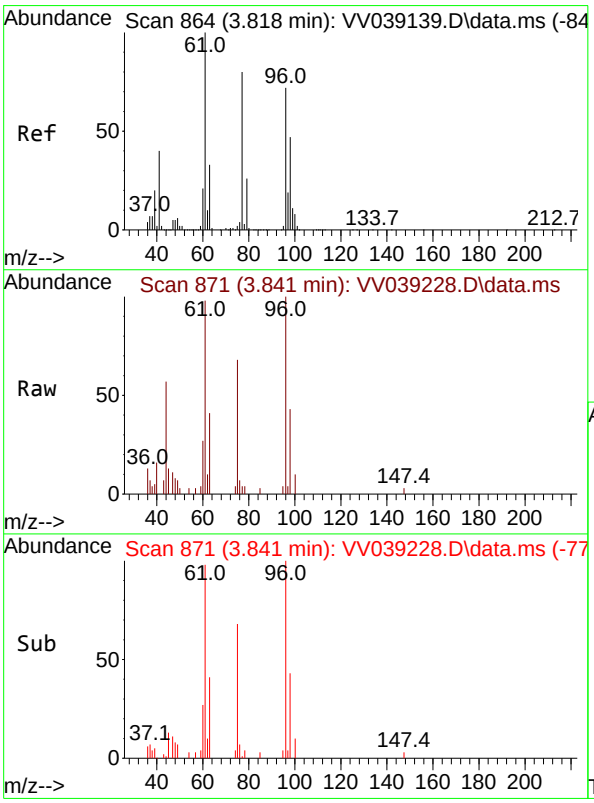
#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.088 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Tgt Ion:101 Resp: 15154

Ion	Ratio	Lower	Upper
101	100		
85	43.7	36.2	54.2
151	77.1	56.3	84.5

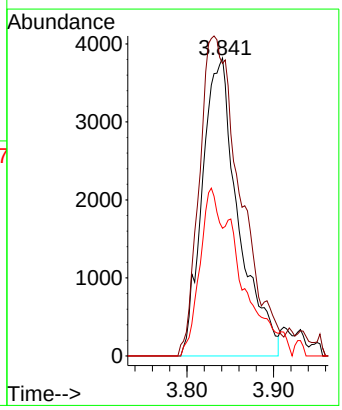


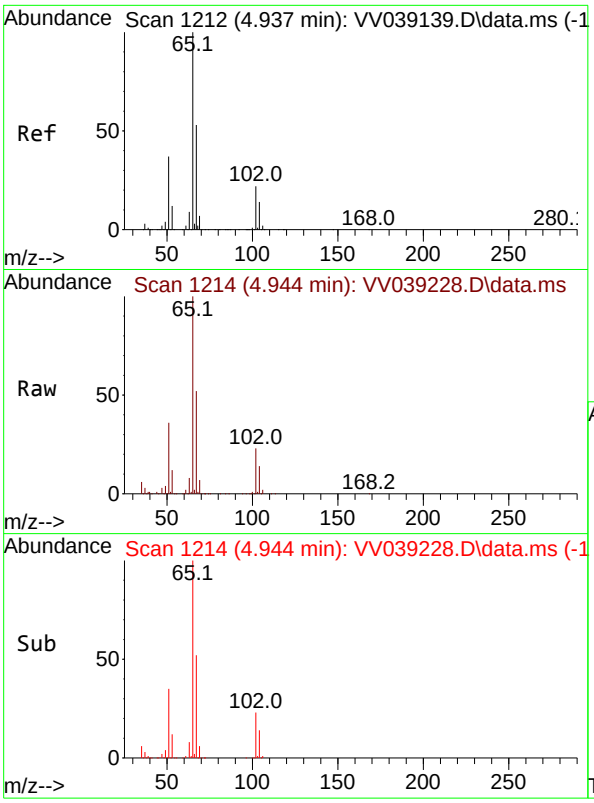


#27
cis-1,2-Dichloroethene
Concen: 1.343 ug/l
RT: 3.841 min Scan# 871
Delta R.T. 0.023 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 96 Resp: 11015

Ion	Ratio	Lower	Upper
96	100		
61	123.6	0.0	286.4
98	32.6	0.0	126.6



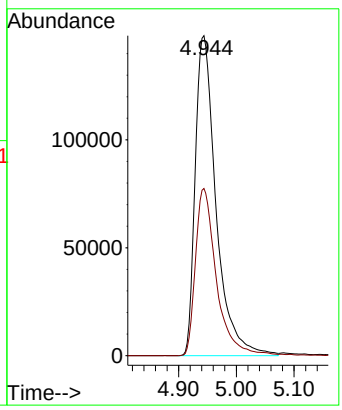


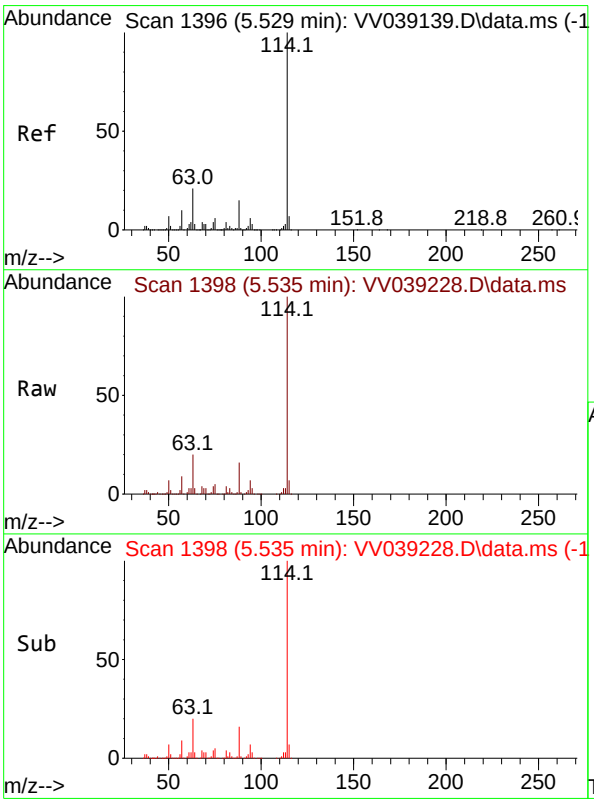
#33
1,2-Dichloroethane-d4
Concen: 55.478 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Tgt Ion: 65 Resp: 371910

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	107.0

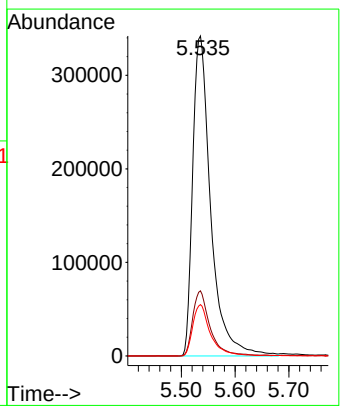


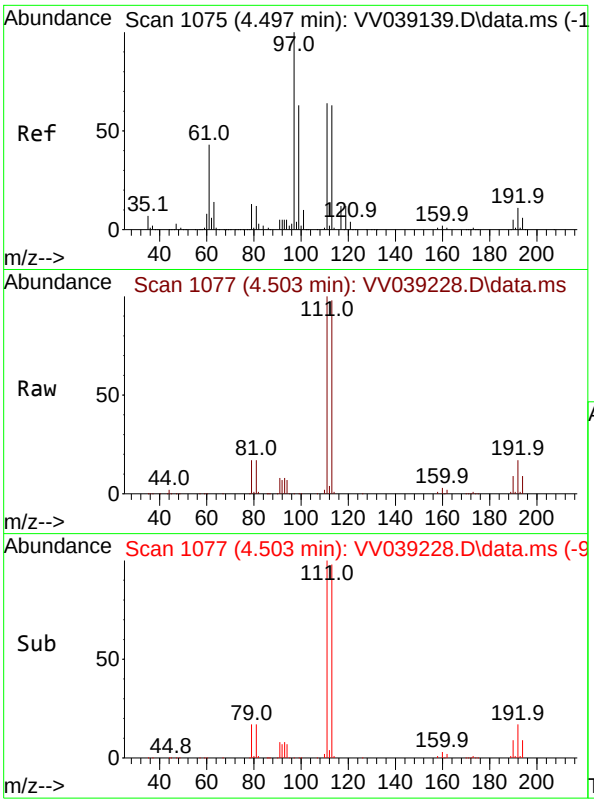


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion:114 Resp: 796521

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	16.1	0.0	30.8



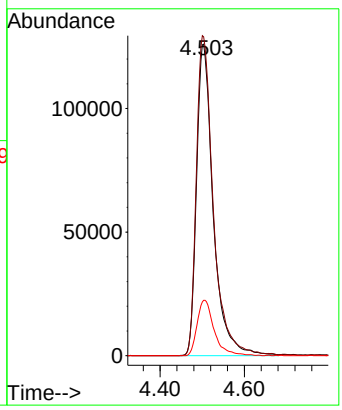


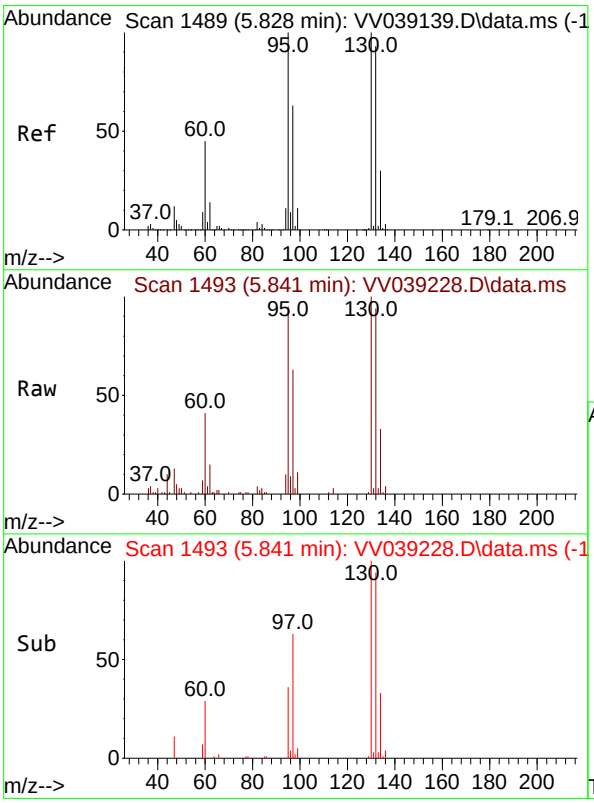
#35
Dibromofluoromethane
Concen: 54.193 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Tgt Ion:113 Resp: 347020

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.4	123.6
192	18.2	13.8	20.8

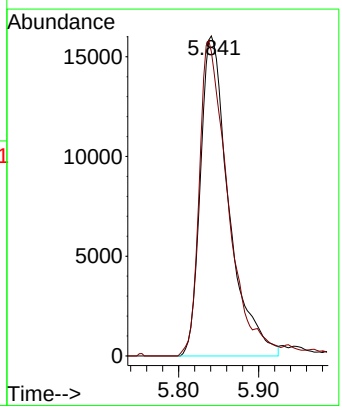


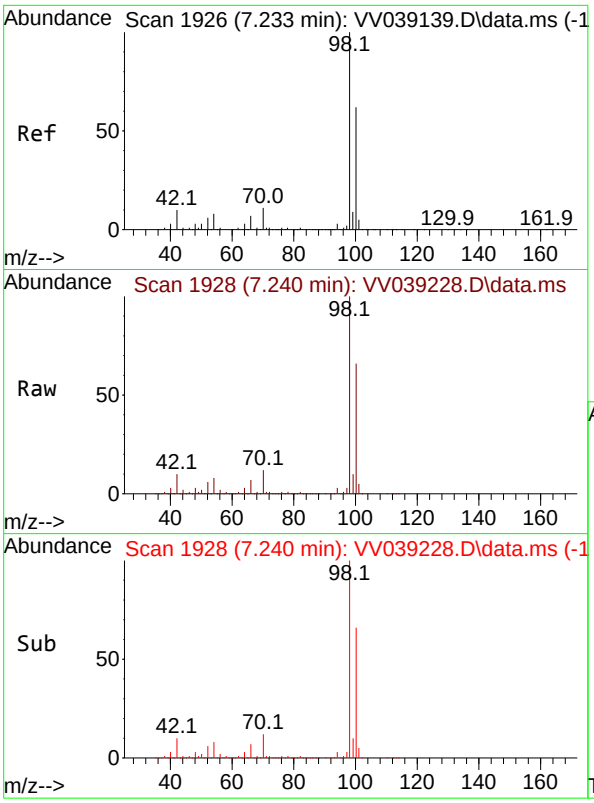


#44
Trichloroethene
Concen: 5.456 ug/l
RT: 5.841 min Scan# 1493
Delta R.T. 0.013 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion:130 Resp: 39693

Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	199.2



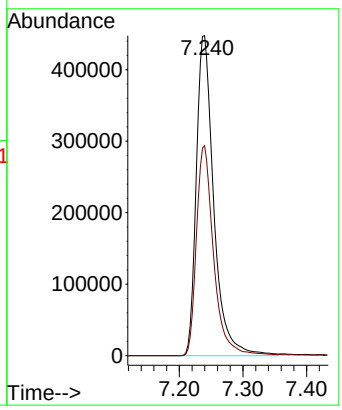


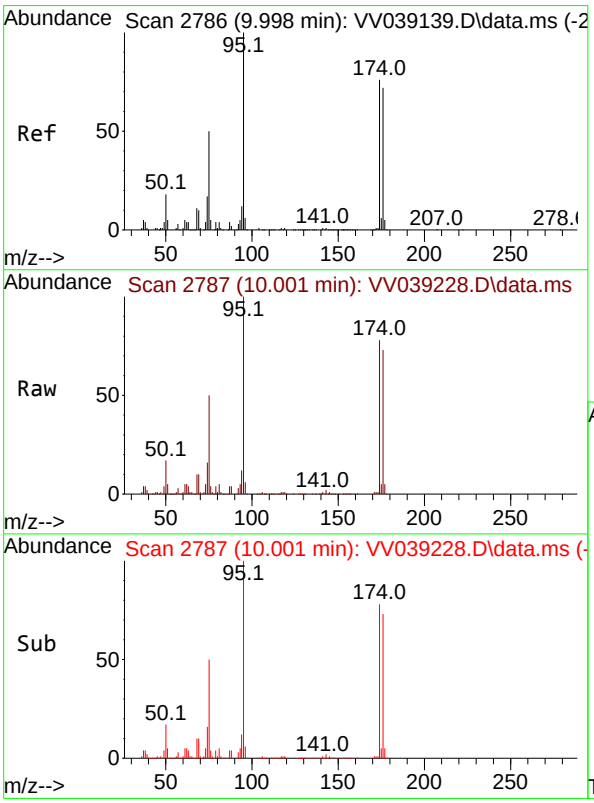
#50
Toluene-d8
Concen: 45.378 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Tgt Ion: 98 Resp: 853418

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

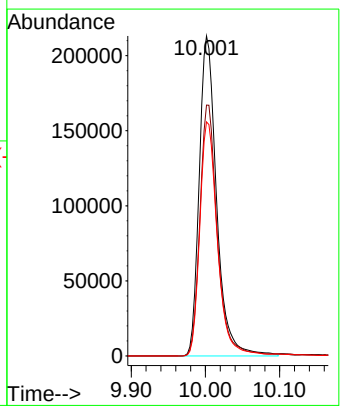


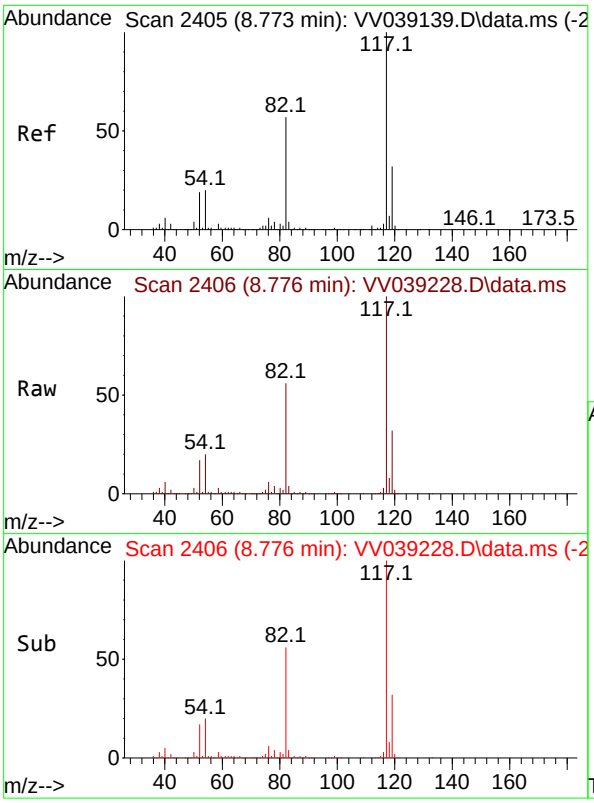


#62
4-Bromofluorobenzene
Concen: 44.912 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 95 Resp: 347720

Ion	Ratio	Lower	Upper
95	100		
174	79.0	0.0	150.4
176	73.9	0.0	144.2



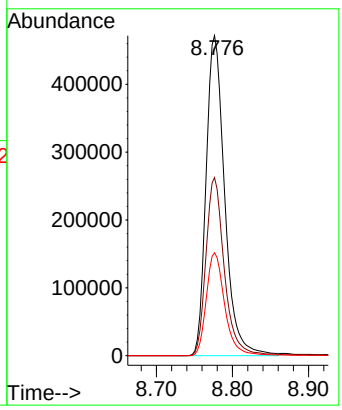


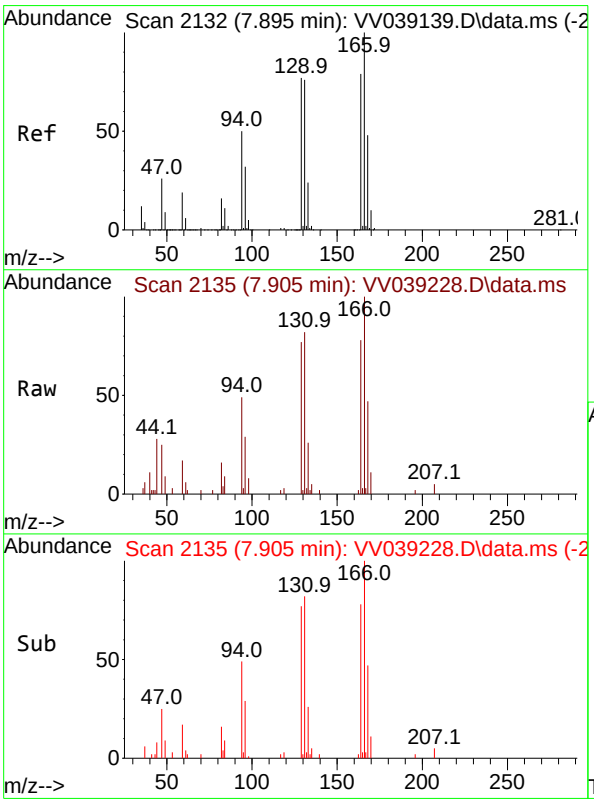
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Tgt Ion:117 Resp: 800959

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.4	68.2
119	32.2	25.6	38.4

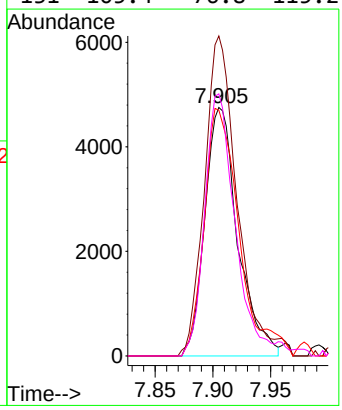


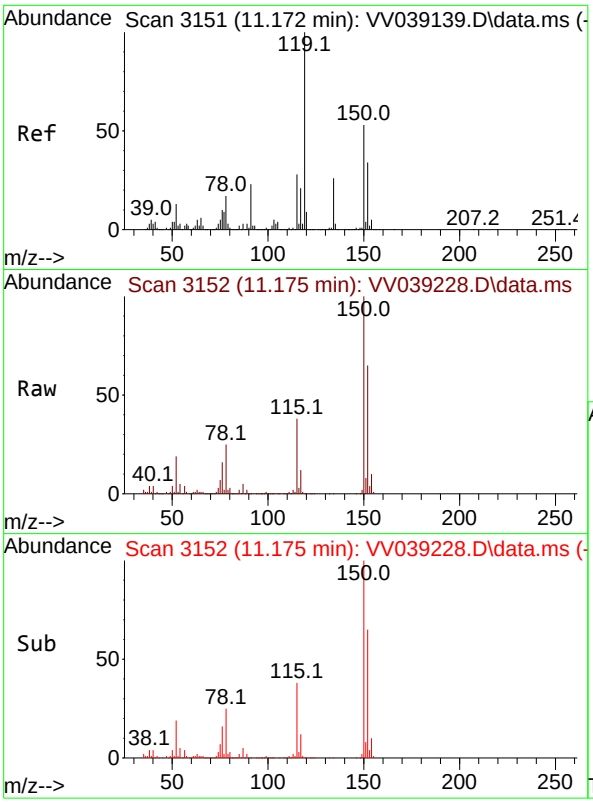


#64
Tetrachloroethene
Concen: 1.403 ug/l
RT: 7.905 min Scan# 2135
Delta R.T. 0.010 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion:164 Resp: 9414

Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.6	152.4
129	98.9	78.5	117.7
131	105.4	76.8	115.2



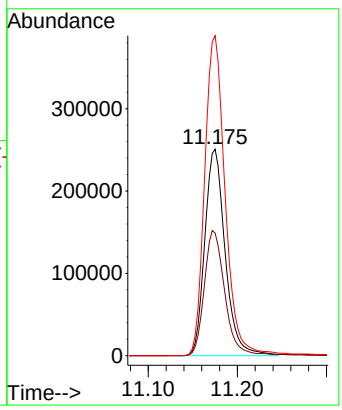


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Tgt Ion:152 Resp: 398638

Ion	Ratio	Lower	Upper
152	100		
115	61.2	44.8	134.4
150	155.8	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039228.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	1.121	19	25	47	rVB	85695	130559	5.45%	0.886%
2	2.082	315	324	335	rBV4	37584	68447	2.86%	0.464%
3	3.831	854	868	891	rBV2	20206	65434	2.73%	0.444%
4	4.503	1059	1077	1095	rBV2	412529	1093878	45.67%	7.420%
5	4.600	1095	1107	1146	rVB	529710	1449450	60.51%	9.832%
6	4.944	1202	1214	1251	rBV	416053	1036924	43.29%	7.033%
7	5.535	1384	1398	1442	rBV	803373	1894227	79.08%	12.848%
8	5.841	1481	1493	1519	rBV3	85783	209917	8.76%	1.424%
9	7.240	1914	1928	1964	rBV	1161489	2241250	93.56%	15.202%
10	7.905	2127	2135	2147	rVB3	36566	68444	2.86%	0.464%
11	8.776	2394	2406	2432	rBV	1395639	2384246	99.53%	16.172%
12	10.001	2774	2787	2813	rBV	1033756	1704655	71.16%	11.563%
13	11.175	3141	3152	3179	rBV	1476126	2395419	100.00%	16.248%

Sum of corrected areas: 14742850

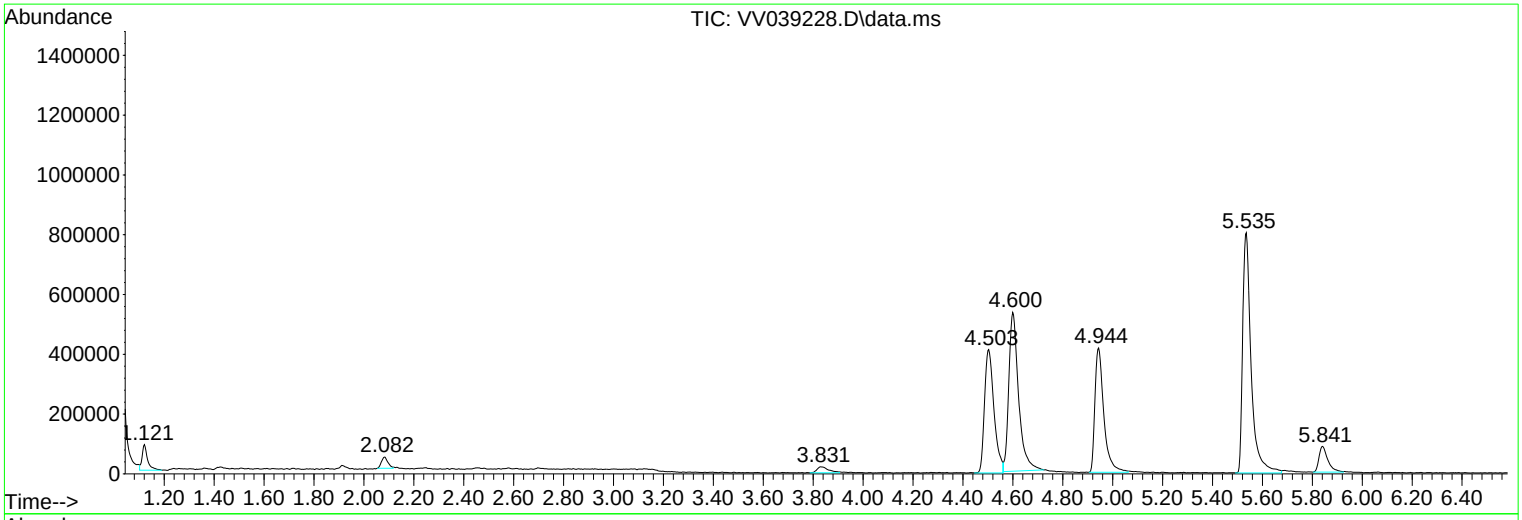
Sample Results: **VV039228.D**

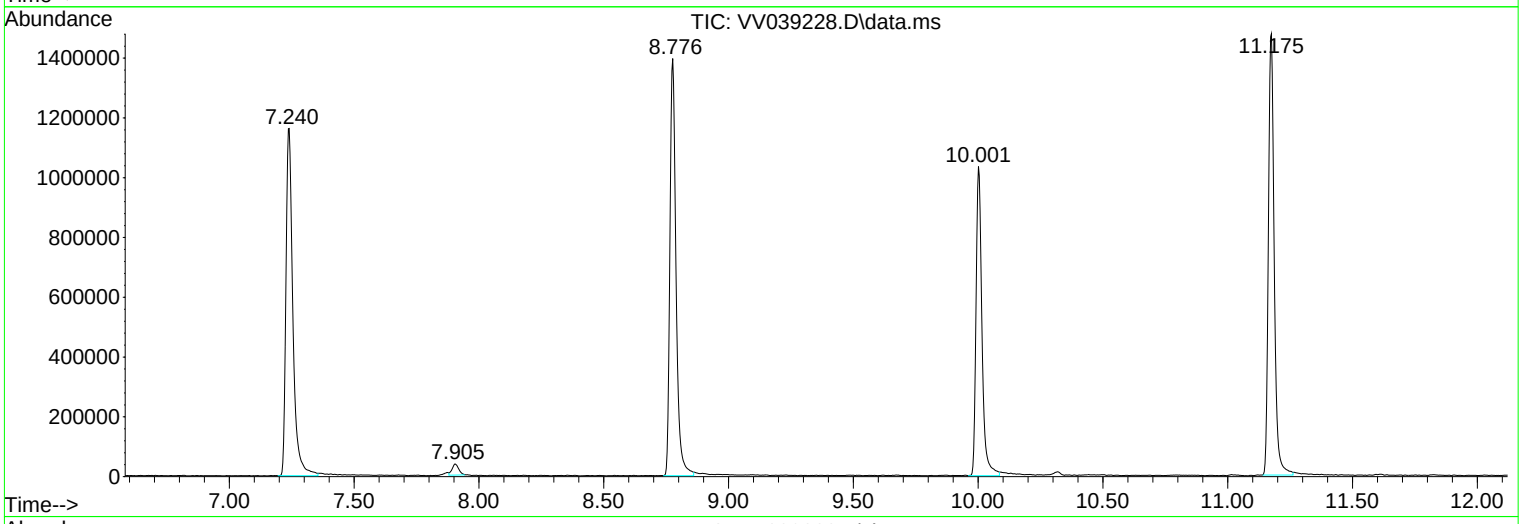
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

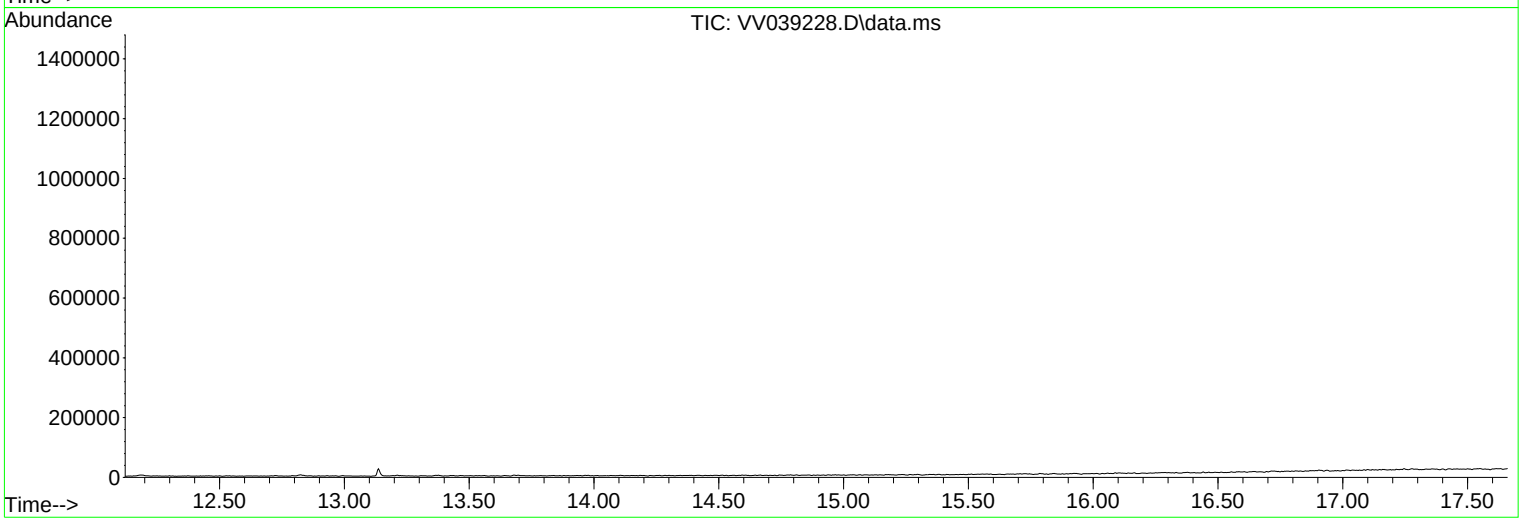
Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/24/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	RW-1-092425	SDG No.:	Q3195
Lab Sample ID:	Q3195-22	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039186.D	1	09/25/25 17:03	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.64	J	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/24/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	RW-1-092425	SDG No.:	Q3195
Lab Sample ID:	Q3195-22	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039186.D	1	09/25/25 17:03	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	45.5		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.8		77 - 121	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	349000	4.603			
540-36-3	1,4-Difluorobenzene	629000	5.535			
3114-55-4	Chlorobenzene-d5	612000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	288000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/24/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	RW-1-092425	SDG No.:	Q3195
Lab Sample ID:	Q3195-22	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039186.D	1	09/25/25 17:03	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Quant Time: Sep 26 01:33:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

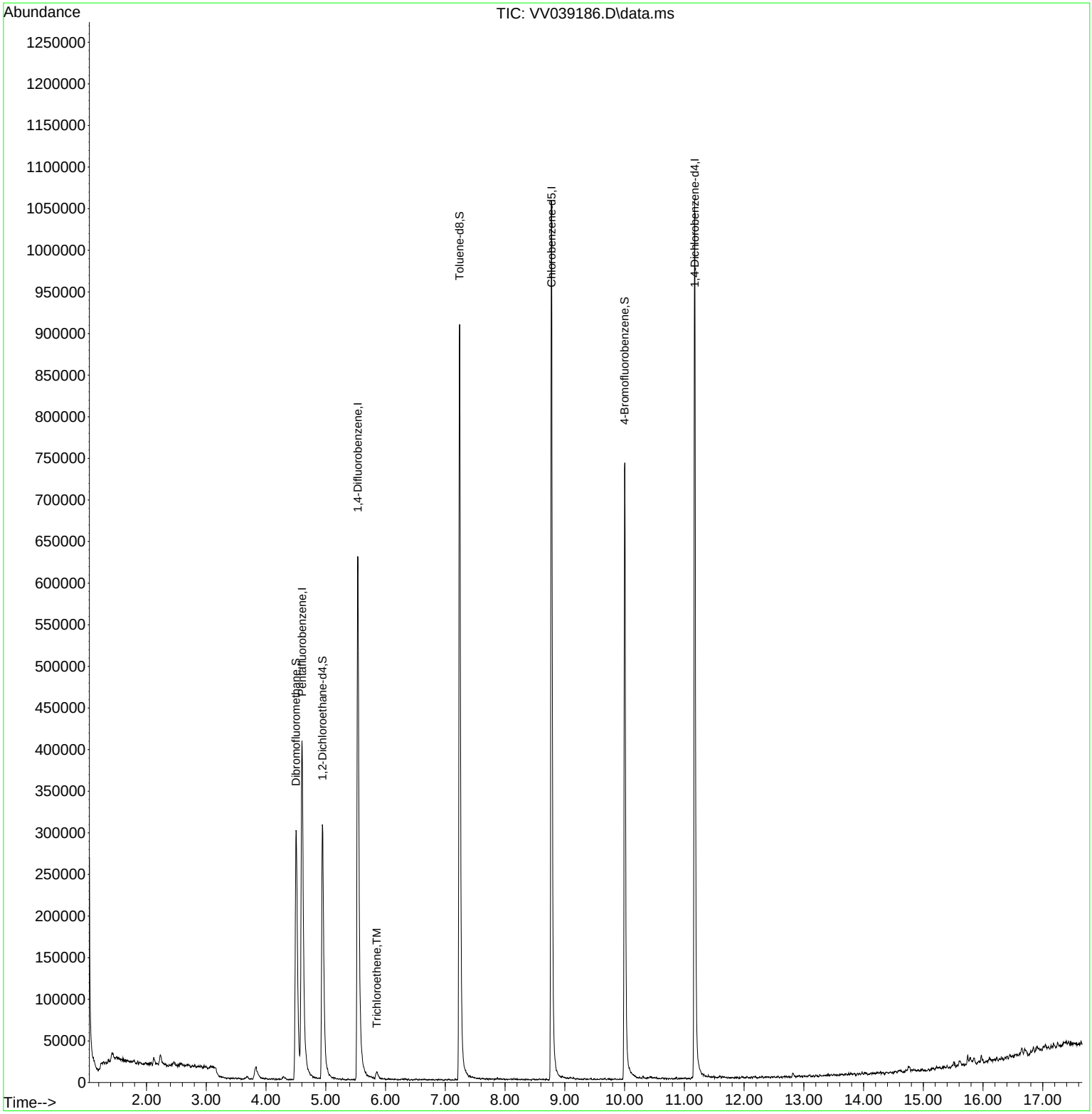
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	349429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	628697	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	611801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	288234	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	280558	55.476	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 110.960%			
35) Dibromofluoromethane	4.503	113	249782	49.421	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 98.840%			
50) Toluene-d8	7.239	98	674823	45.460	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.920%			
62) 4-Bromofluorobenzene	10.001	95	261365	42.770	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 85.540%			
Target Compounds						Qvalue
44) Trichloroethene	5.854	130	3671	0.639	ug/l	95

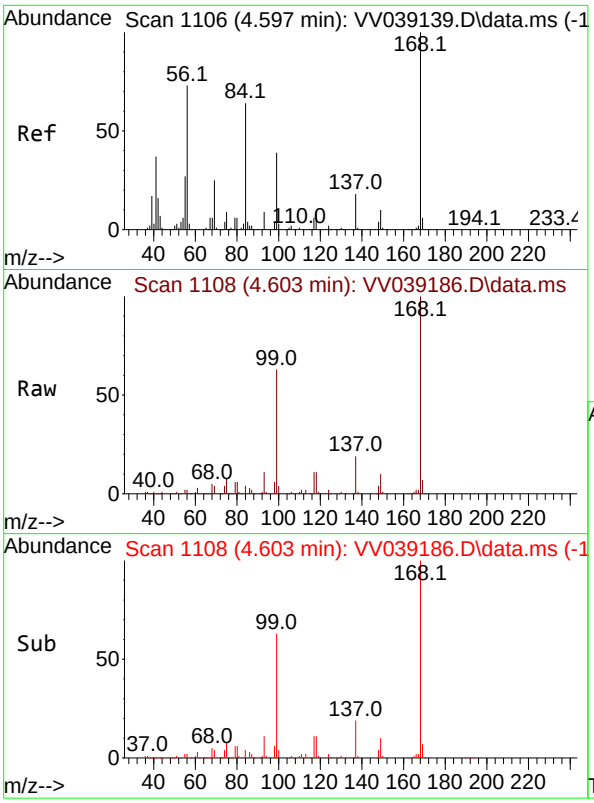
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Quant Time: Sep 26 01:33:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



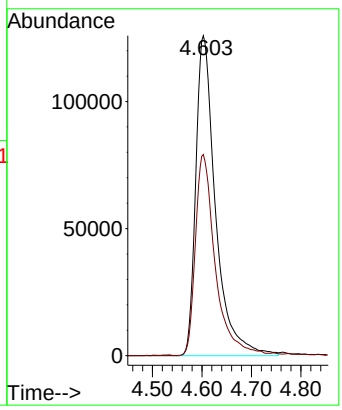


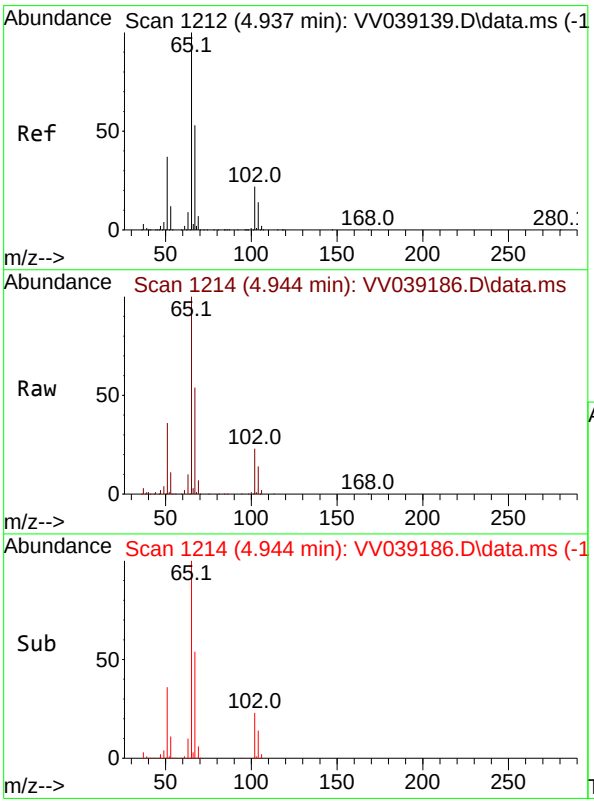
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Tgt Ion:168 Resp: 349429

Ion	Ratio	Lower	Upper
168	100		
99	62.7	49.6	74.4

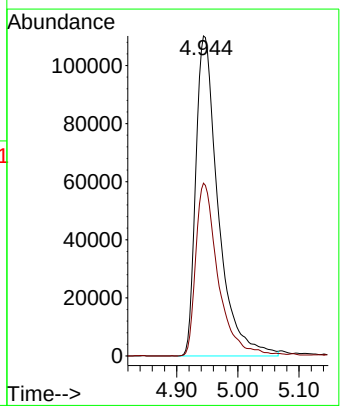


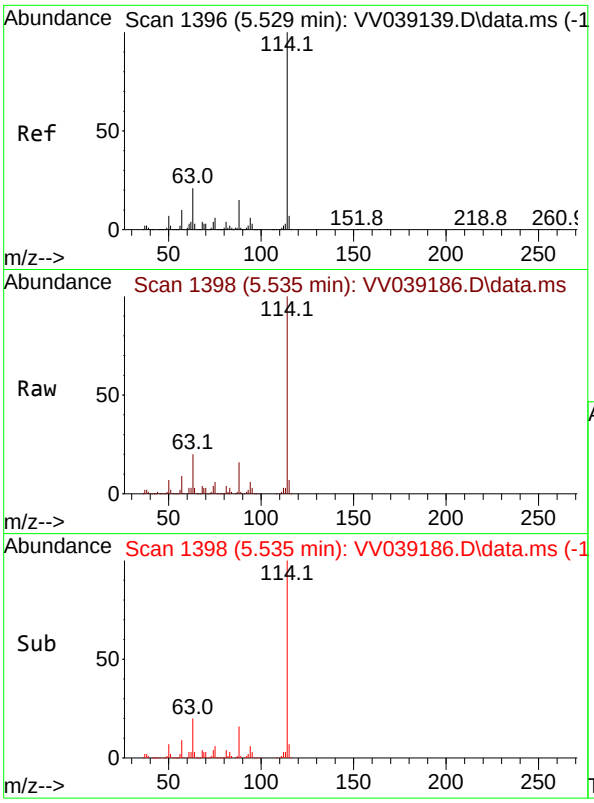


#33
1,2-Dichloroethane-d4
Concen: 55.476 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 65 Resp: 280558

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.0



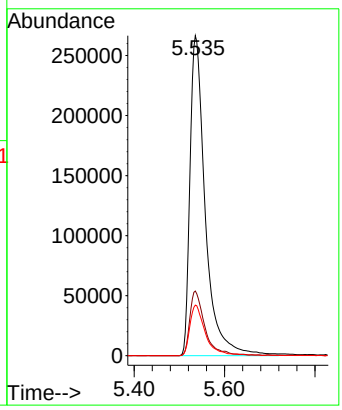


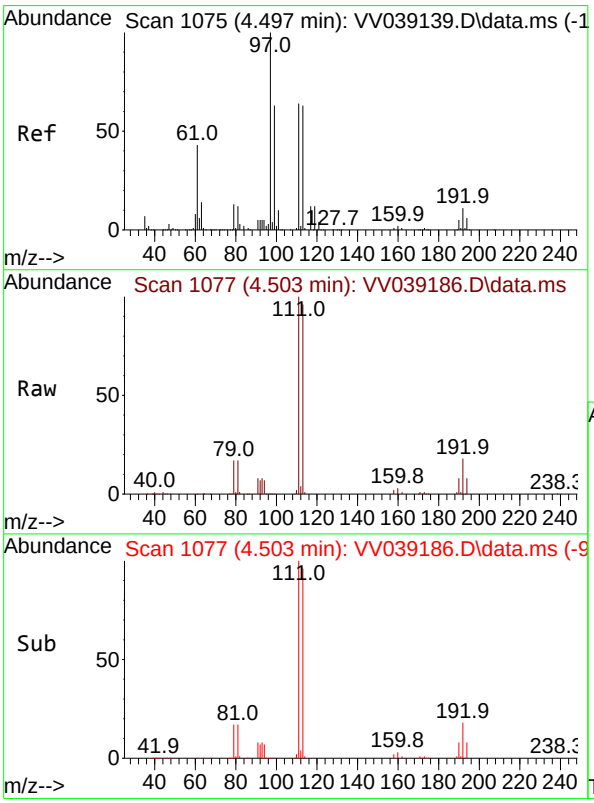
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Tgt Ion:114 Resp: 628697

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.8	0.0	30.8

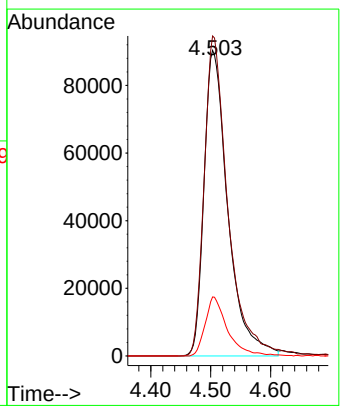


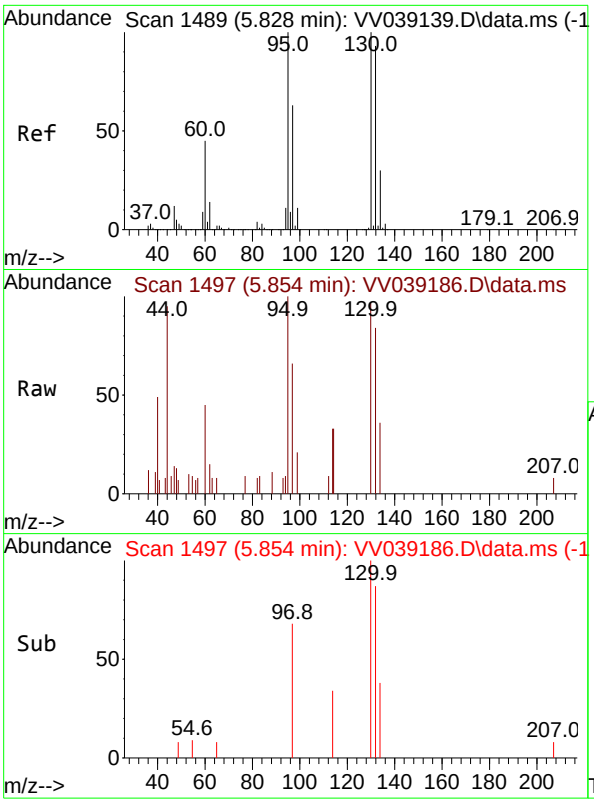


#35
Dibromofluoromethane
Concen: 49.421 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion:113 Resp: 249782

Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.4	123.6
192	18.1	13.8	20.8



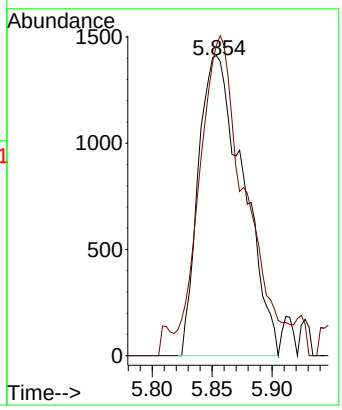


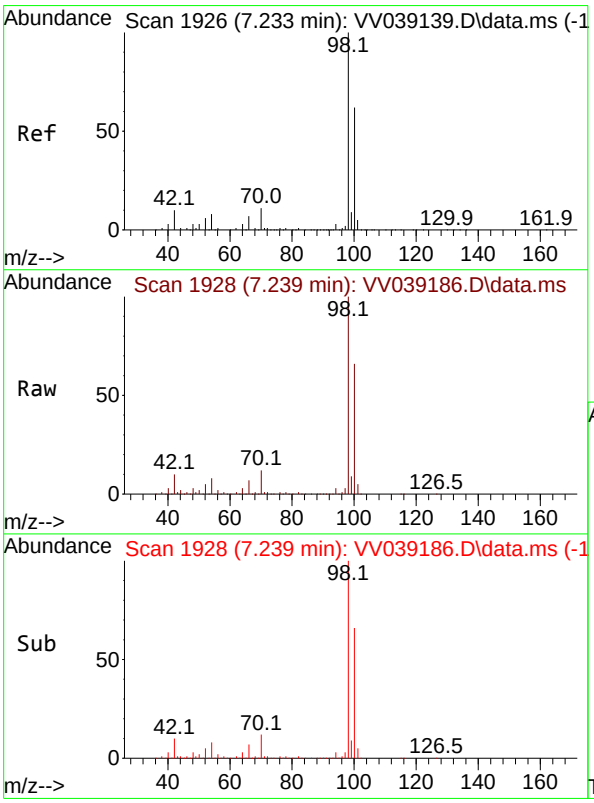
#44
Trichloroethene
Concen: 0.639 ug/l
RT: 5.854 min Scan# 14
Delta R.T. 0.026 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Tgt Ion:130 Resp: 3671

Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	199.2

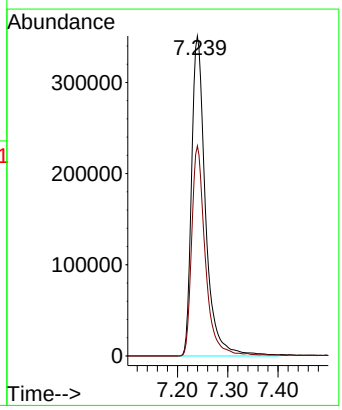


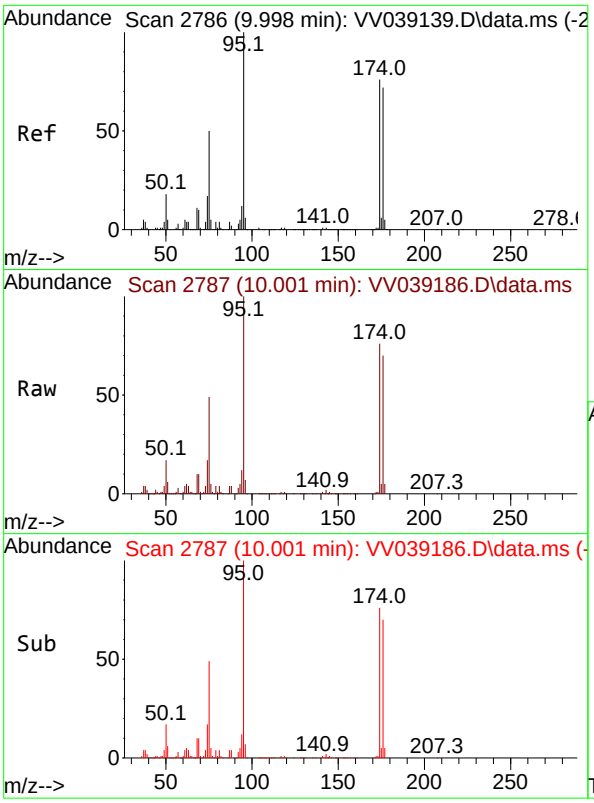


#50
Toluene-d8
Concen: 45.460 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 98 Resp: 674823

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.2	78.2



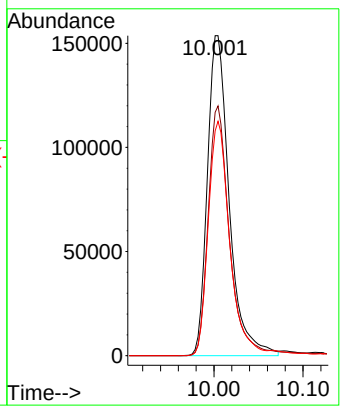


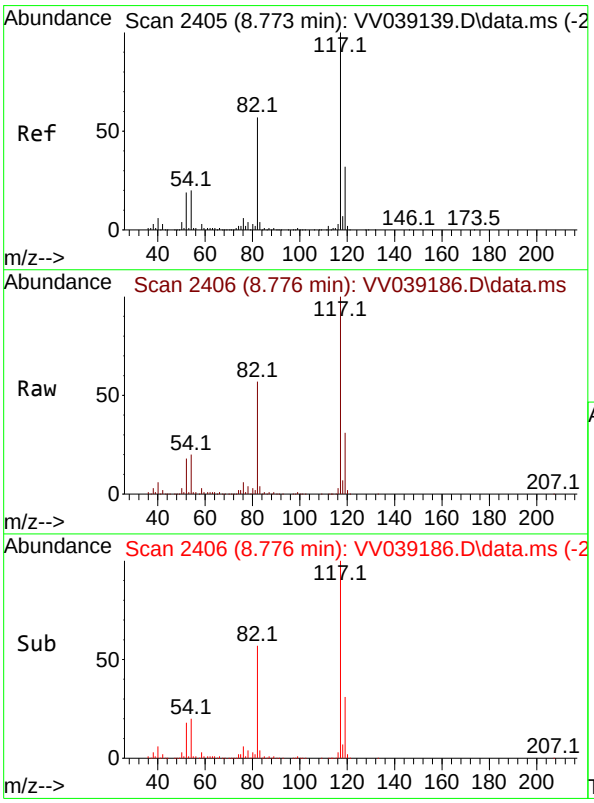
#62
4-Bromofluorobenzene
Concen: 42.770 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Tgt Ion: 95 Resp: 261365

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	150.4
176	71.8	0.0	144.2

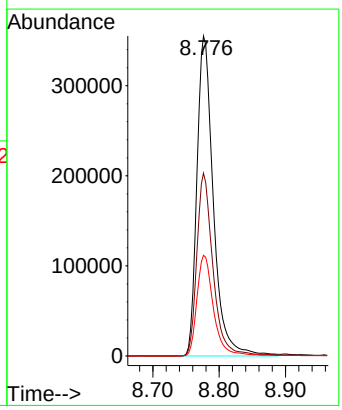


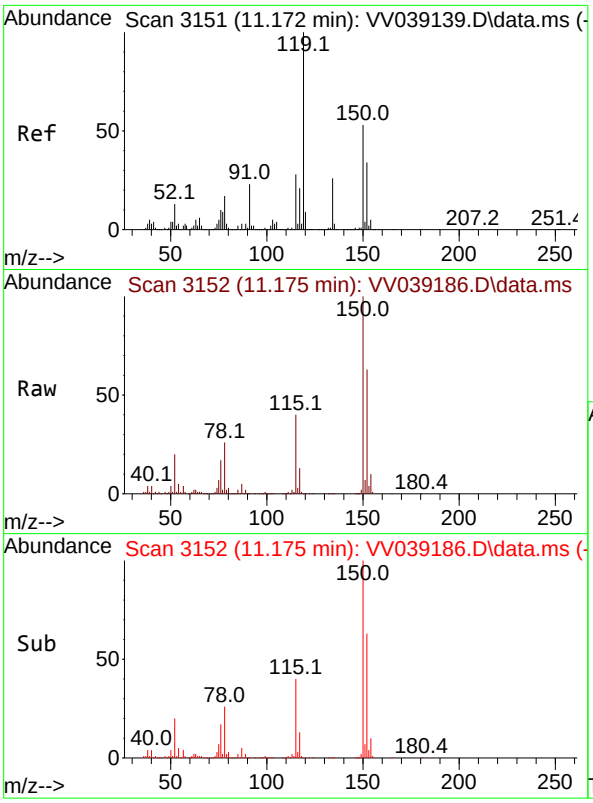


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion:117 Resp: 611801

Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.4	68.2
119	31.5	25.6	38.4



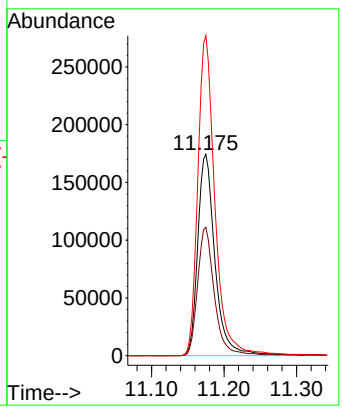


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Tgt Ion:152 Resp: 288234

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.8	134.4
150	158.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039186.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.834	852	869	874	rBV3	15024	37938	2.06%	0.352%
2	4.503	1063	1077	1096	rBV	299941	790727	42.96%	7.337%
3	4.603	1096	1108	1138	rVB	397597	1069516	58.11%	9.924%
4	4.944	1203	1214	1239	rBV	305410	767938	41.72%	7.126%
5	5.535	1385	1398	1437	rBV	629123	1487698	80.83%	13.805%
6	5.854	1487	1497	1503	rBV	8542	18848	1.02%	0.175%
7	7.239	1916	1928	1959	rBV	908166	1745814	94.86%	16.200%
8	8.776	2392	2406	2432	rBV	1056906	1840500	100.00%	17.078%
9	10.005	2777	2788	2810	rBV	740902	1257810	68.34%	11.672%
10	11.175	3141	3152	3188	rBV	1055868	1759964	95.62%	16.331%

Sum of corrected areas: 10776753

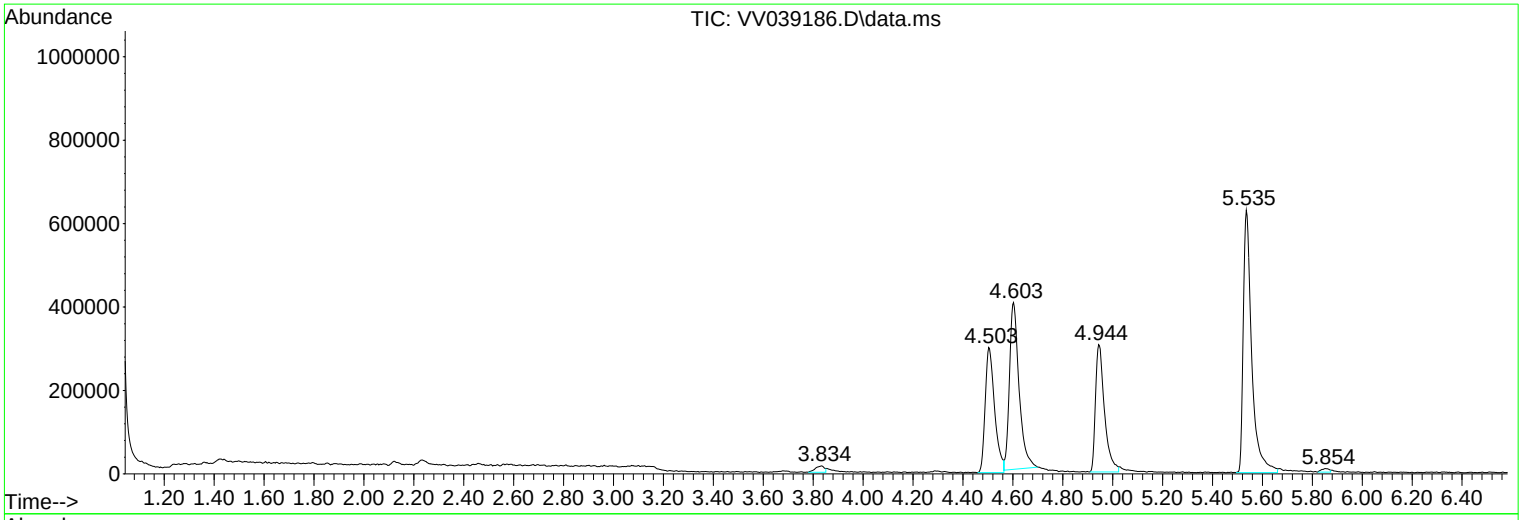
Sample Results: **VV039186.D**

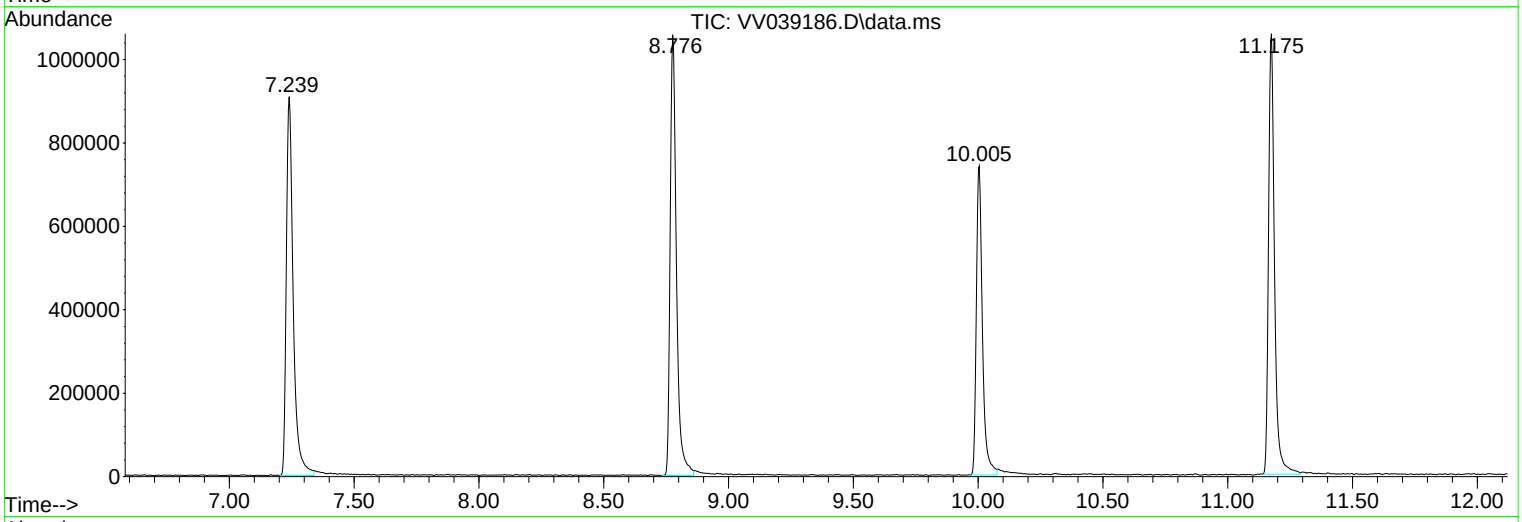
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

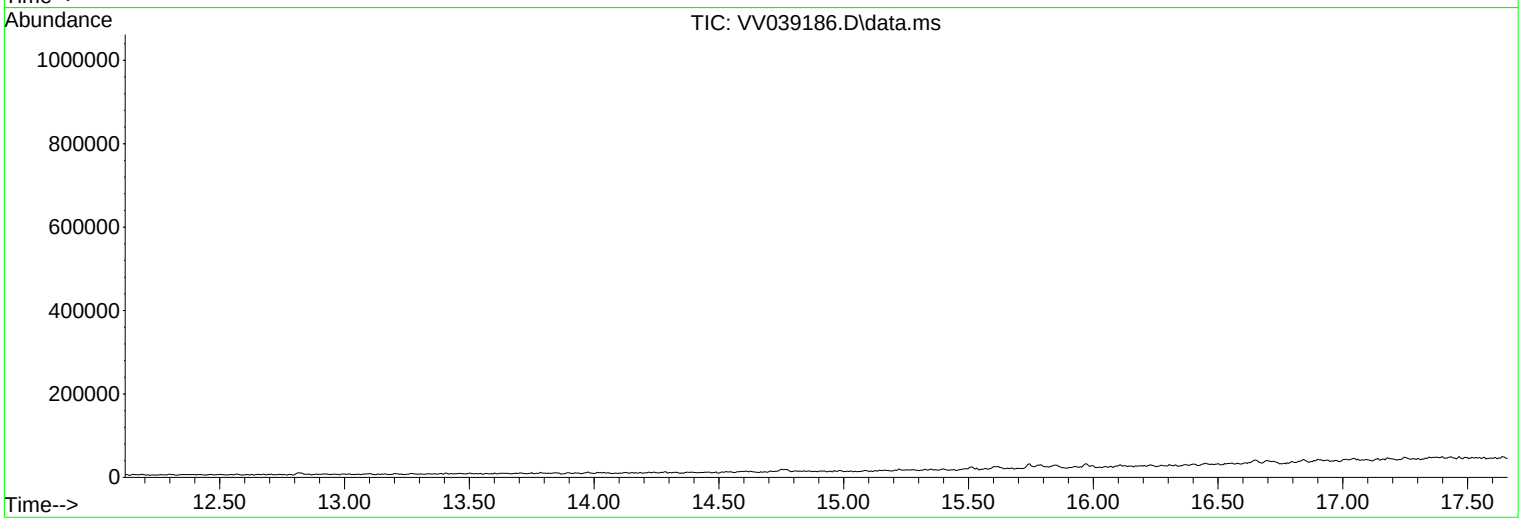
Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
RW-1-092425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	EB-01-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-23	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039187.D	1	09/25/25 17:25	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	EB-01-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-23	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039187.D	1	09/25/25 17:25	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	45.3		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		77 - 121	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	361000	4.603			
540-36-3	1,4-Difluorobenzene	632000	5.535			
3114-55-4	Chlorobenzene-d5	624000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	293000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	EB-01-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-23	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039187.D	1	09/25/25 17:25	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Quant Time: Sep 26 01:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

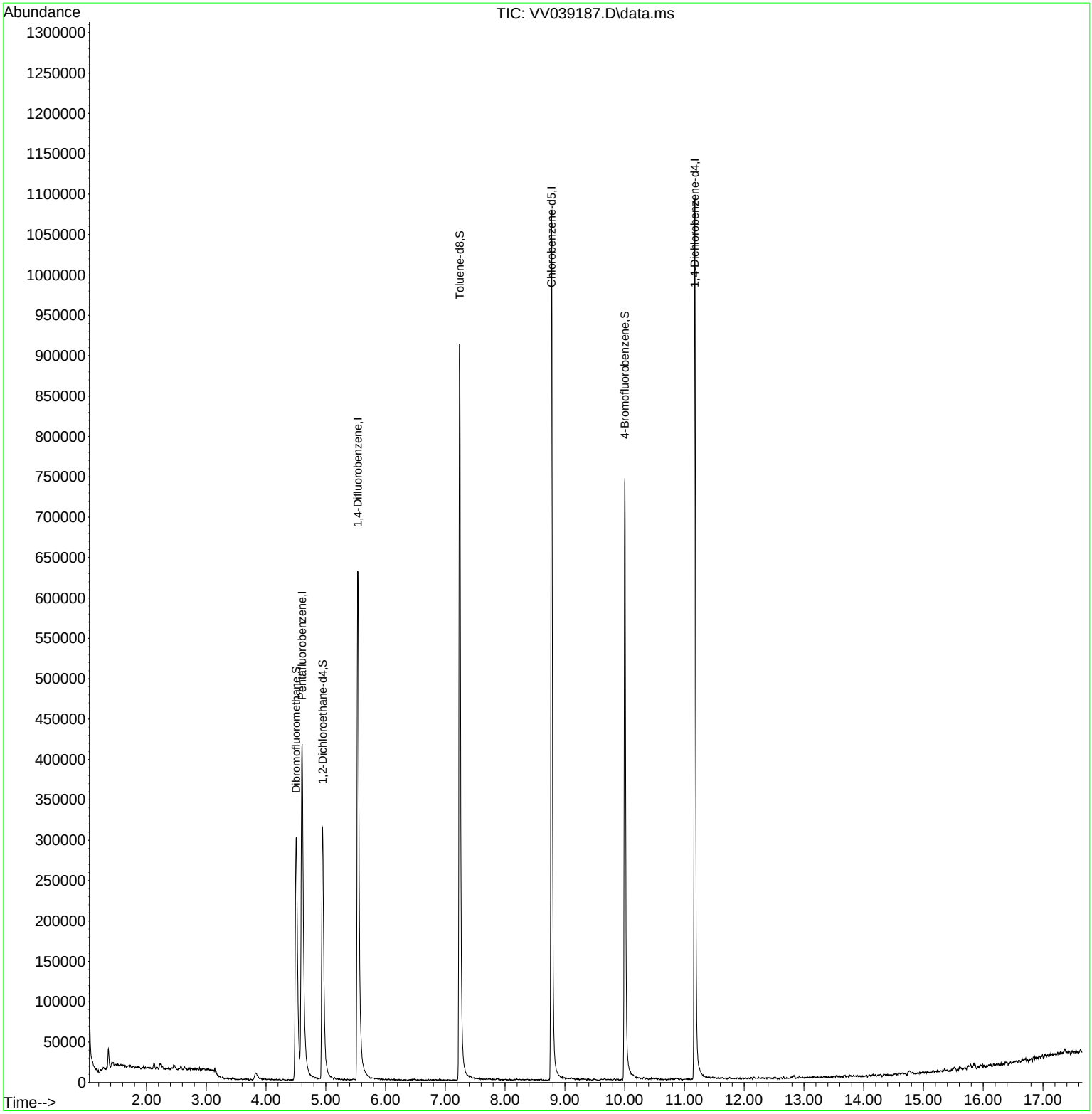
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	360957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	632244	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	624309	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	293380	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.947	65	279642	53.529	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 107.060%			
35) Dibromofluoromethane	4.506	113	257560	50.674	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 101.340%			
50) Toluene-d8	7.239	98	676812	45.338	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.680%			
62) 4-Bromofluorobenzene	10.001	95	268424	43.678	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.360%			
Target Compounds						Qvalue

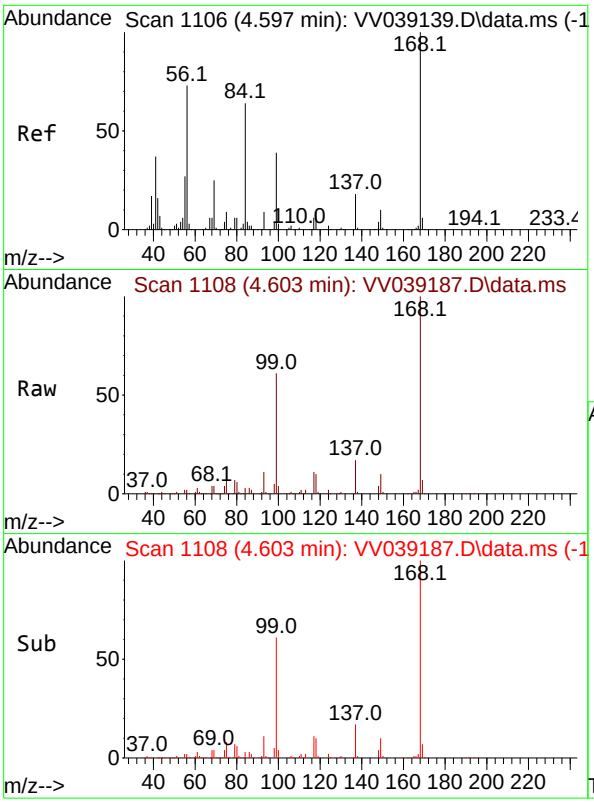
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Quant Time: Sep 26 01:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



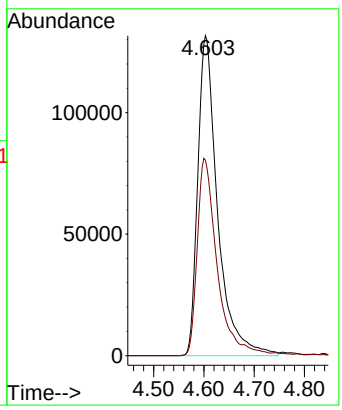


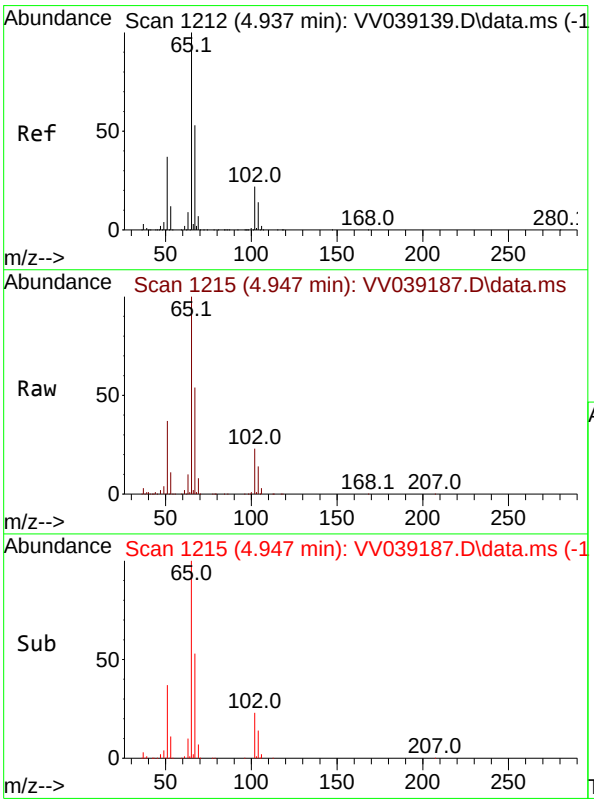
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Tgt Ion:168 Resp: 360957

Ion	Ratio	Lower	Upper
168	100		
99	61.1	49.6	74.4

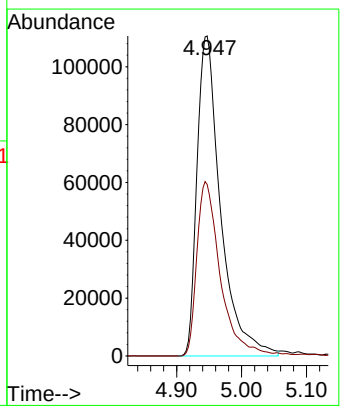


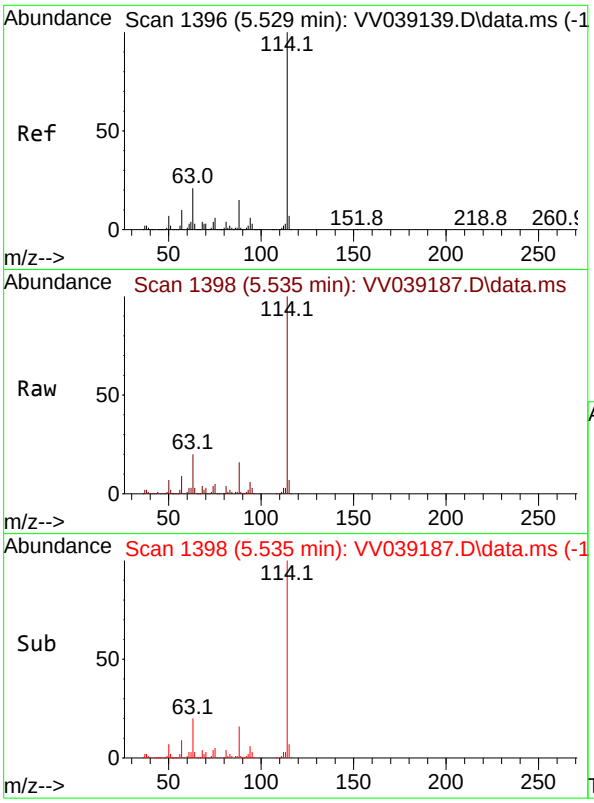


#33
1,2-Dichloroethane-d4
Concen: 53.529 ug/l
RT: 4.947 min Scan# 1215
Delta R.T. 0.010 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion: 65 Resp: 279642

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	107.0



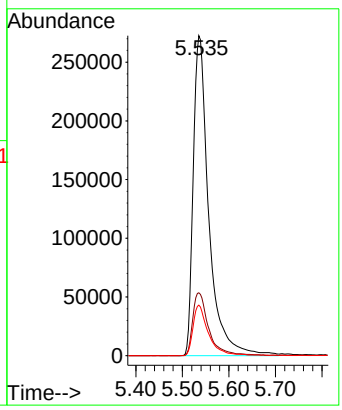


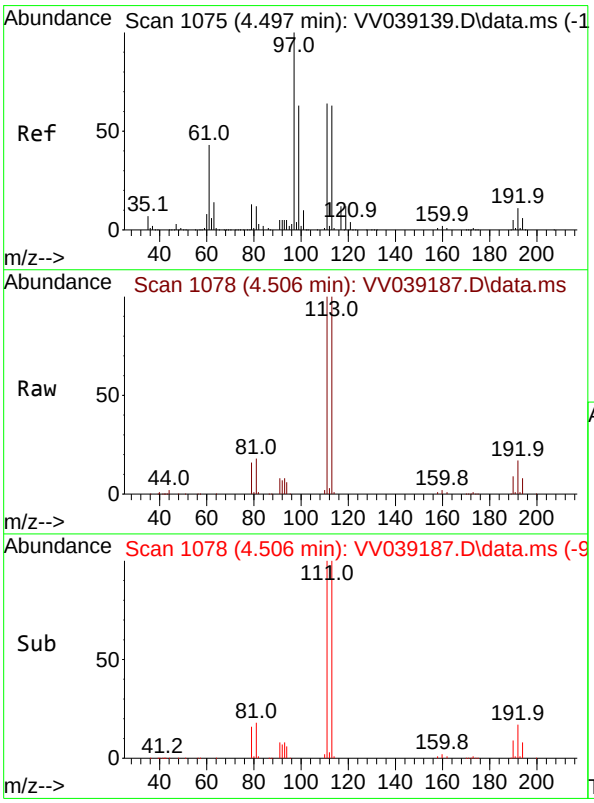
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Tgt Ion:114 Resp: 632244

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.6
88	15.8	0.0	30.8

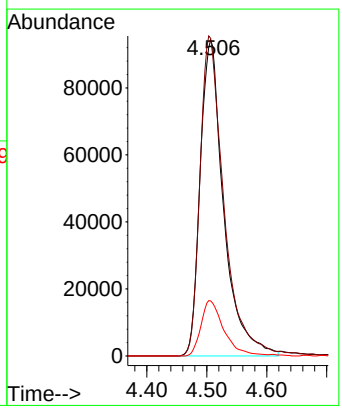


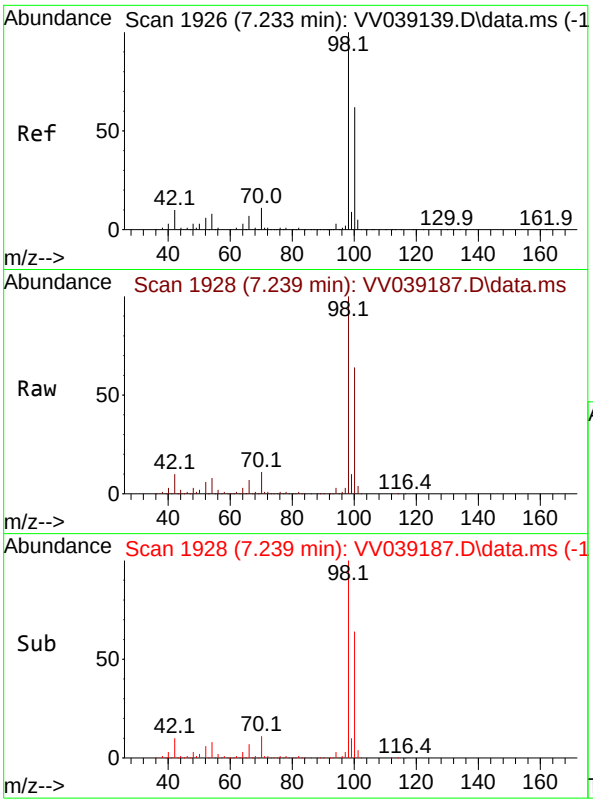


#35
Dibromofluoromethane
Concen: 50.674 ug/l
RT: 4.506 min Scan# 1078
Delta R.T. 0.010 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion:113 Resp: 257560

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	17.1	13.8	20.8



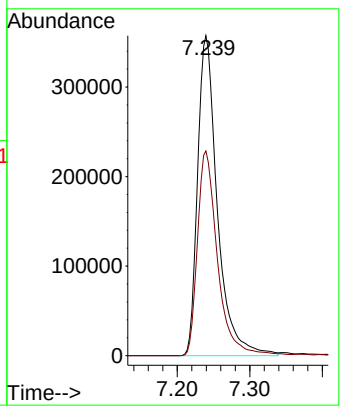


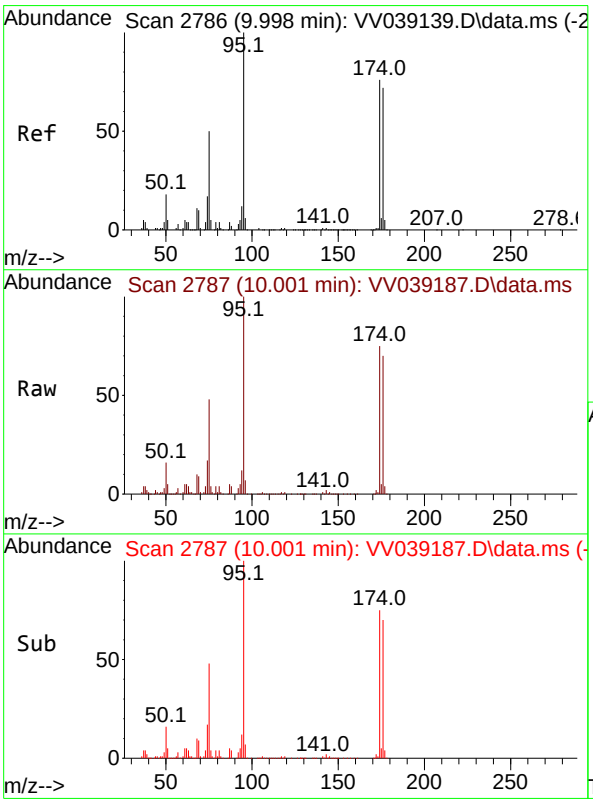
#50
Toluene-d8
Concen: 45.338 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Tgt Ion: 98 Resp: 676812

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

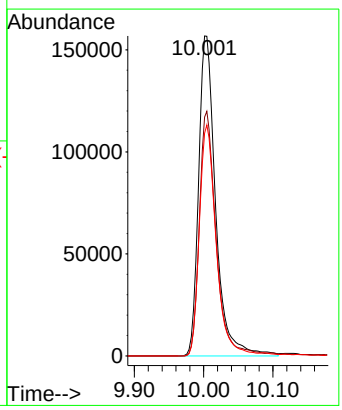


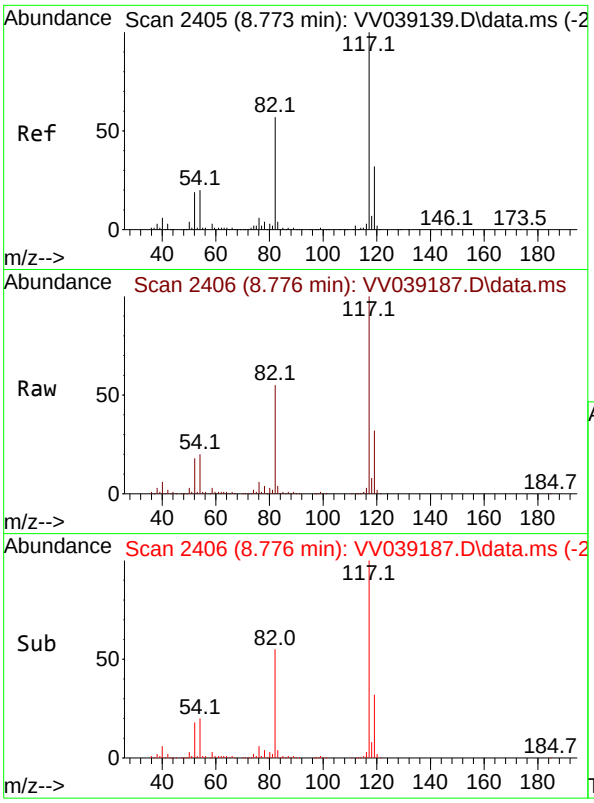


#62
4-Bromofluorobenzene
Concen: 43.678 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion: 95 Resp: 268424

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	150.4
176	71.0	0.0	144.2



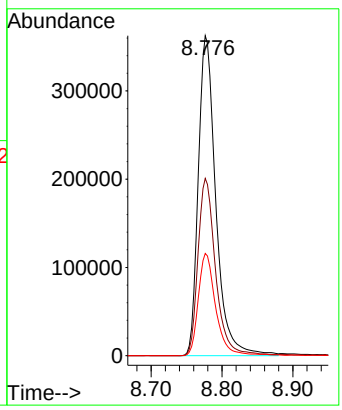


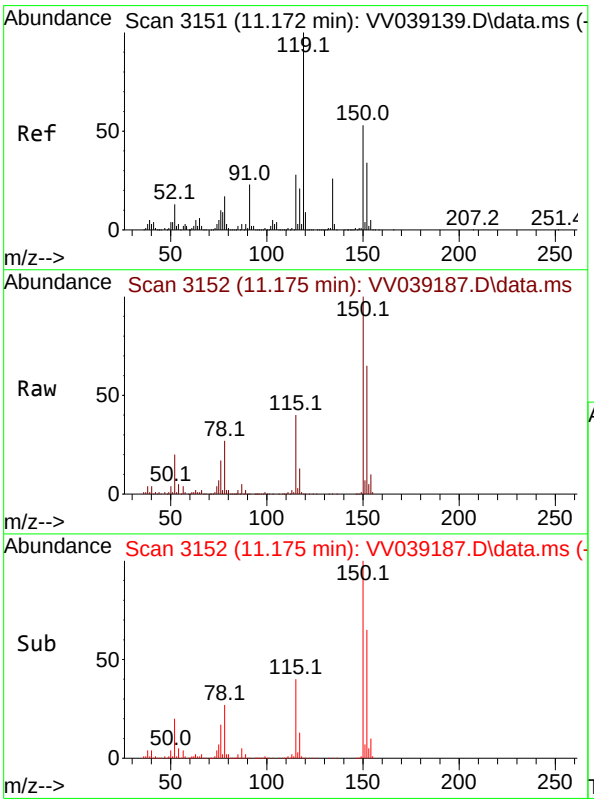
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Tgt Ion:117 Resp: 624309

Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.4	68.2
119	31.9	25.6	38.4

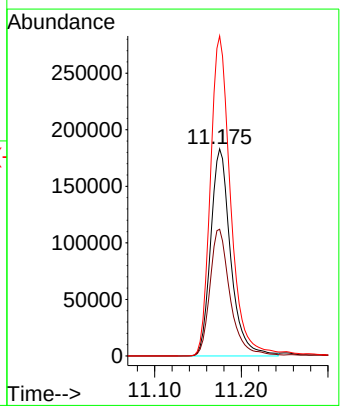




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion:152 Resp: 293380

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.8	134.4
150	155.7	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039187.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.362	94	100	112	rBV	23980	32623	1.74%	0.298%
2	4.506	1061	1078	1096	rBV2	300455	803025	42.76%	7.335%
3	4.603	1096	1108	1148	rVB2	411242	1139792	60.70%	10.411%
4	4.944	1203	1214	1248	rBV	310798	776855	41.37%	7.096%
5	5.535	1387	1398	1432	rBV	629741	1472573	78.42%	13.451%
6	7.239	1915	1928	1961	rBV	911685	1776688	94.61%	16.229%
7	8.776	2396	2406	2443	rBV	1076882	1877896	100.00%	17.154%
8	10.005	2775	2788	2816	rBV	745457	1287513	68.56%	11.761%
9	11.175	3140	3152	3175	rBV	1090154	1780569	94.82%	16.265%

Sum of corrected areas: 10947534

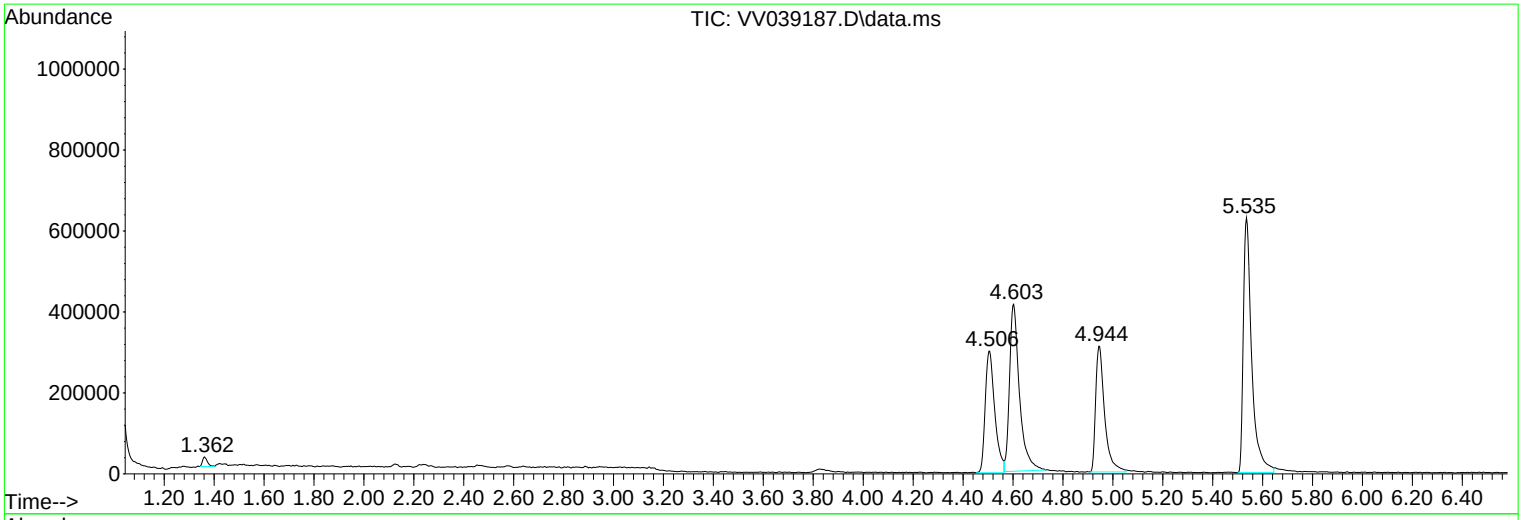
Sample Results: **VV039187.D**

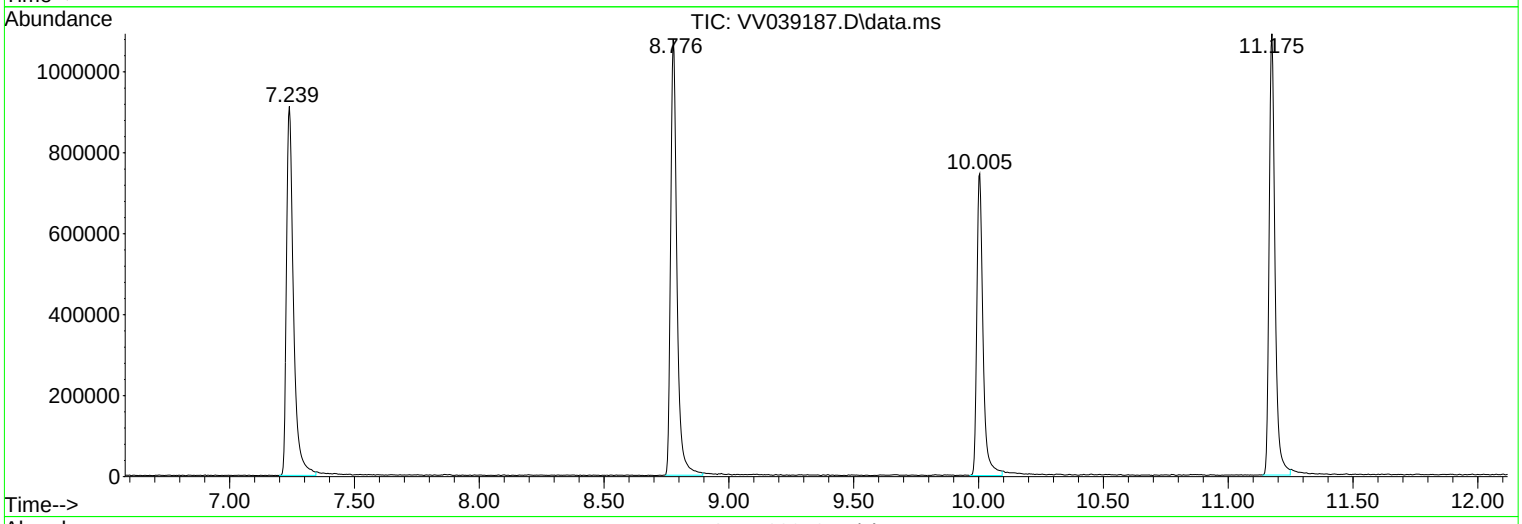
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

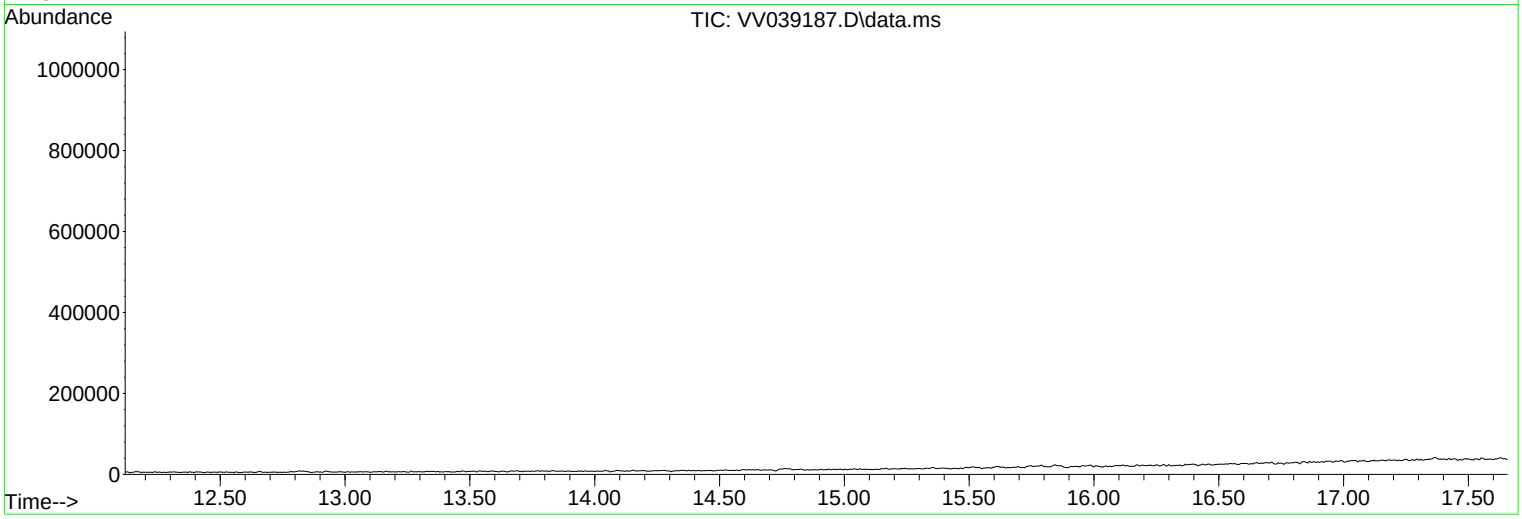
Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	EB-02-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-24	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039203.D	1	09/26/25 11:36	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	EB-02-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-24	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039203.D	1	09/26/25 11:36	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		74 - 125	109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	45.7		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.5		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	509000	4.6			
540-36-3	1,4-Difluorobenzene	912000	5.535			
3114-55-4	Chlorobenzene-d5	889000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	433000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	EB-02-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-24	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039203.D	1	09/26/25 11:36	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Quant Time: Sep 27 02:52:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	509169	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	912297	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	888919	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	432706	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	402670	54.642	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 109.280%			
35) Dibromofluoromethane	4.503	113	372970	50.854	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 101.700%			
50) Toluene-d8	7.236	98	984633	45.711	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.420%			
62) 4-Bromofluorobenzene	10.002	95	394970	44.541	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.080%			

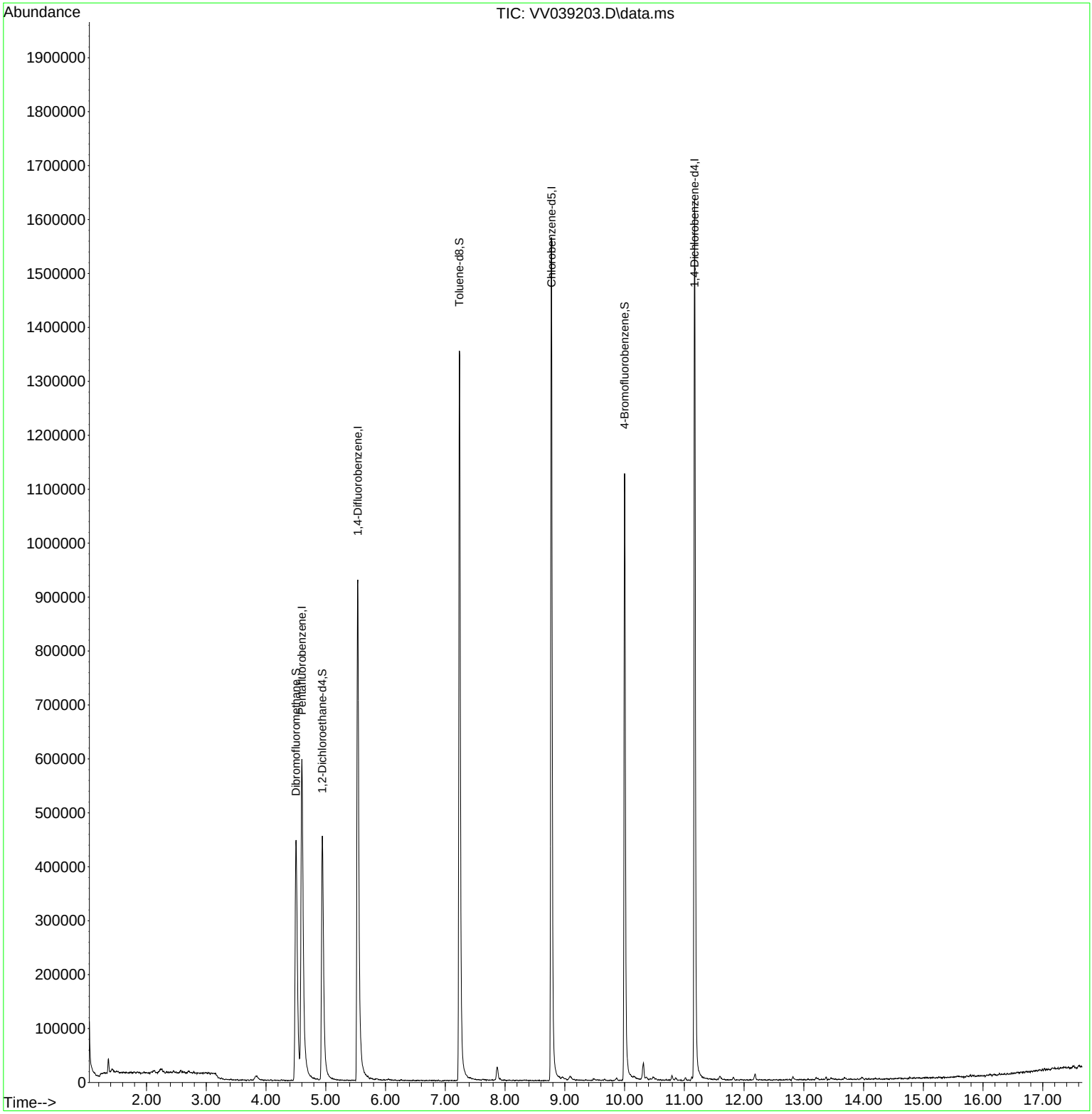
Target Compounds Qvalue

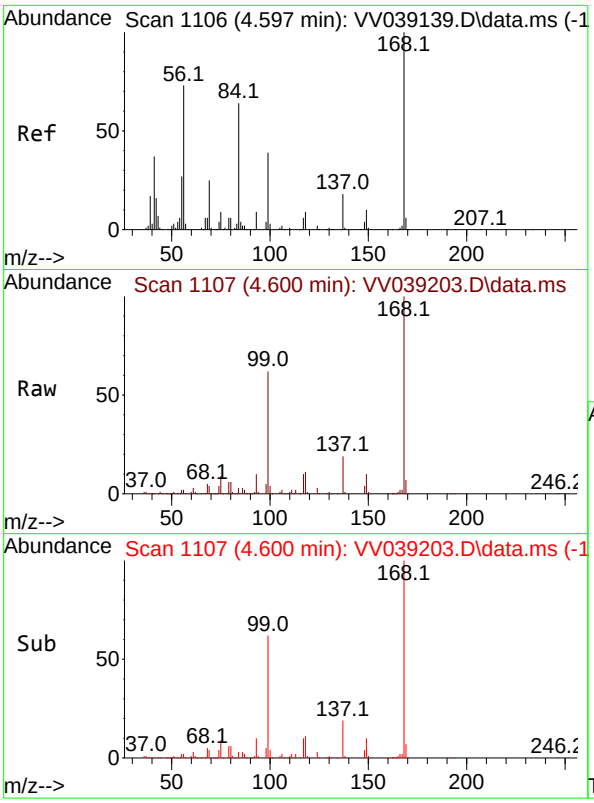
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Quant Time: Sep 27 02:52:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



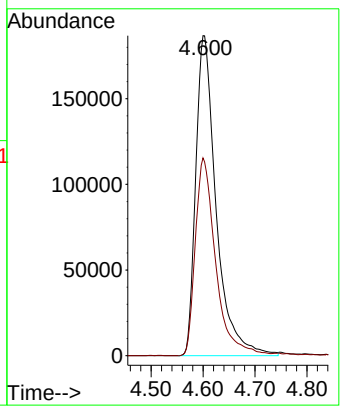


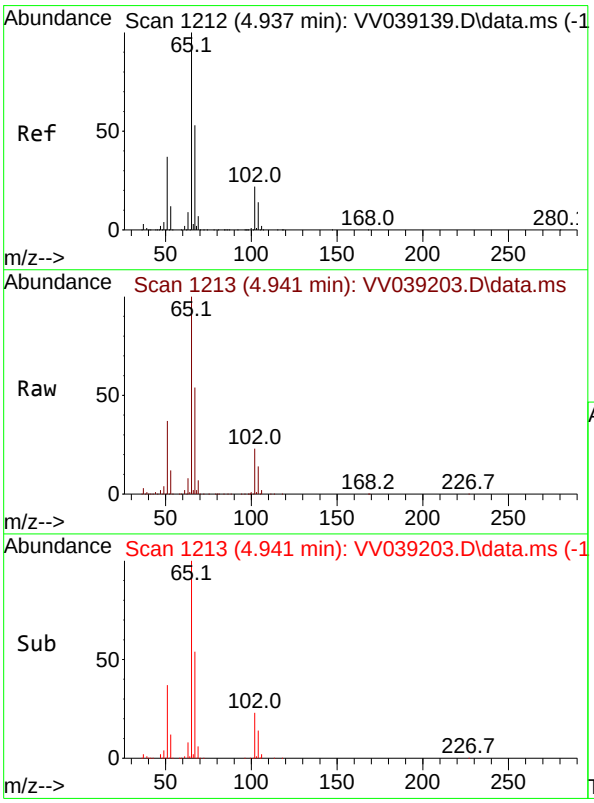
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Tgt Ion:168 Resp: 509169

Ion	Ratio	Lower	Upper
168	100		
99	61.8	49.6	74.4

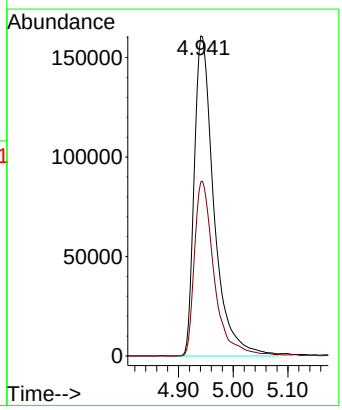


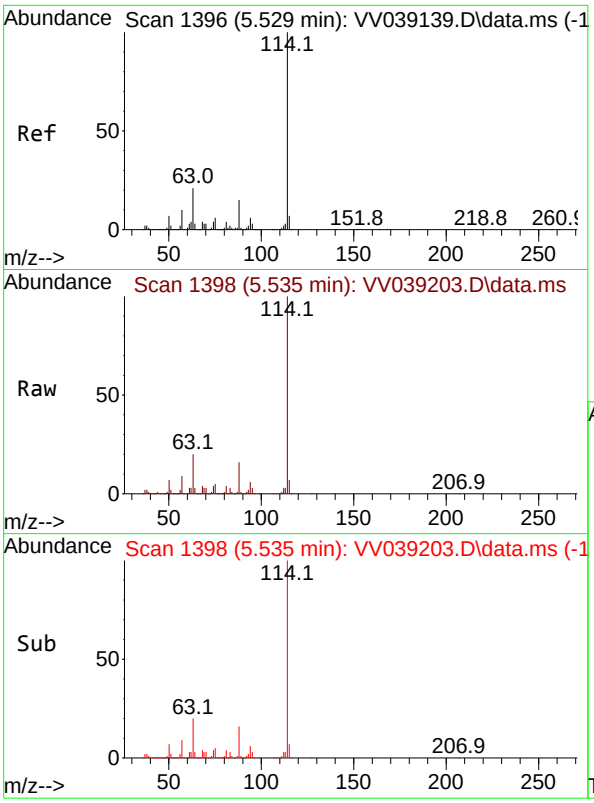


#33
1,2-Dichloroethane-d4
Concen: 54.642 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion: 65 Resp: 402670

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	107.0



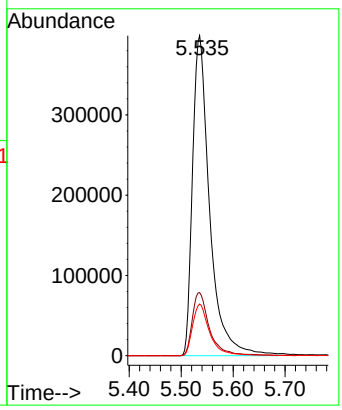


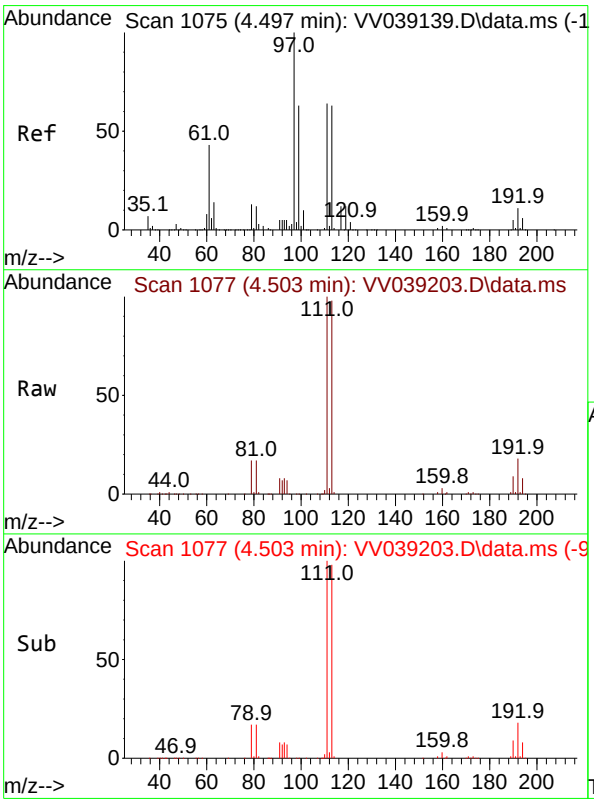
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Tgt Ion:114 Resp: 912297

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	42.6
88	16.1	0.0	30.8

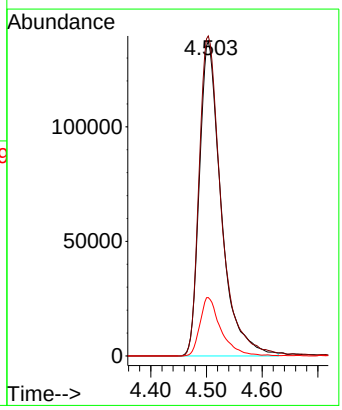


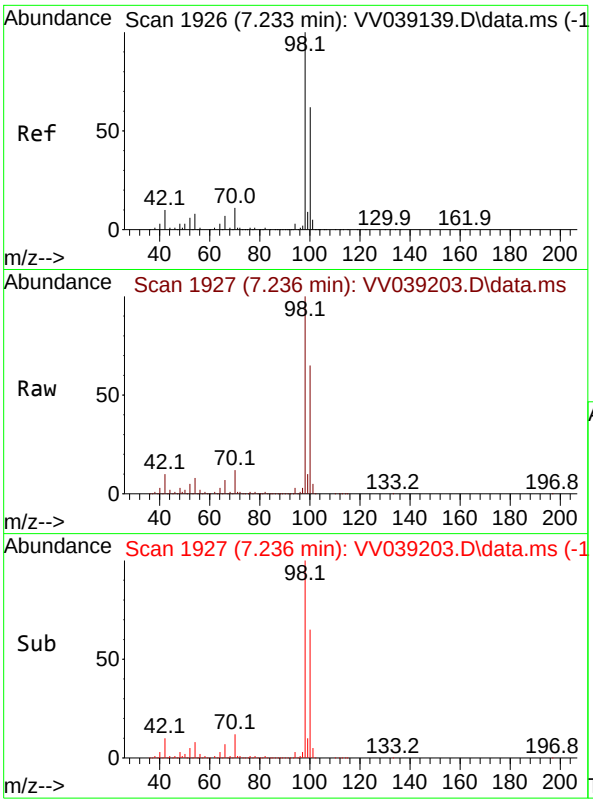


#35
Dibromofluoromethane
Concen: 50.854 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion:113 Resp: 372970

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.4	123.6
192	17.8	13.8	20.8



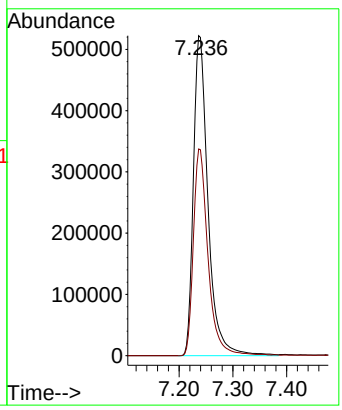


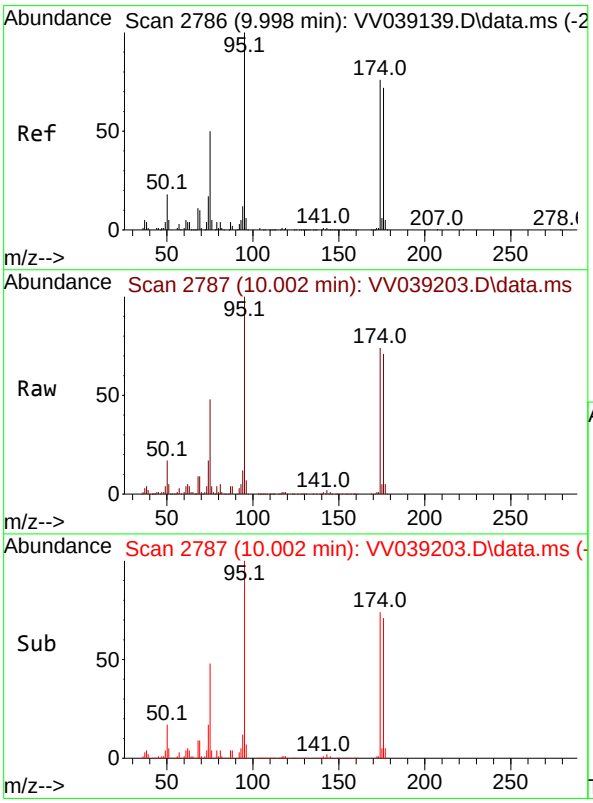
#50
Toluene-d8
Concen: 45.711 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Tgt Ion: 98 Resp: 984633

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

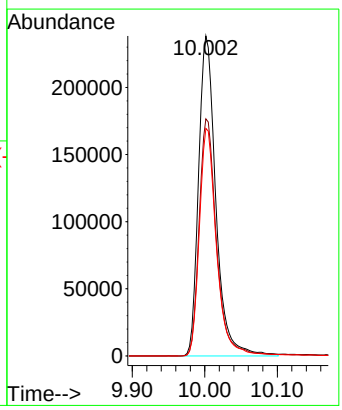


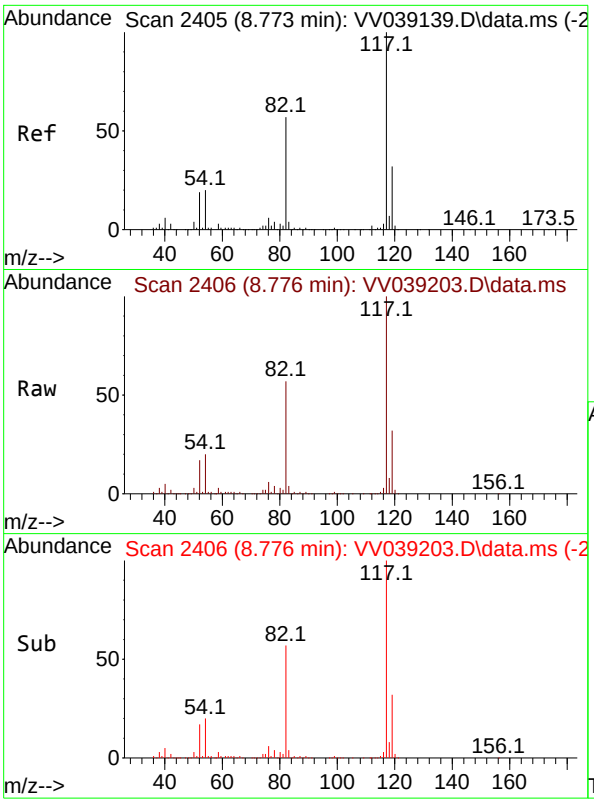


#62
4-Bromofluorobenzene
Concen: 44.541 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion: 95 Resp: 394970

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	150.4
176	70.5	0.0	144.2



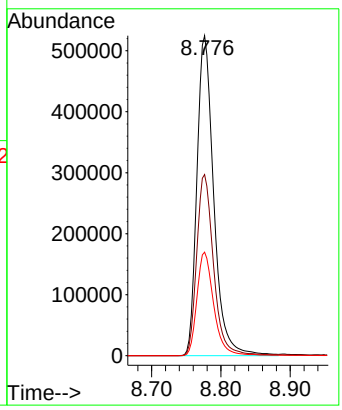


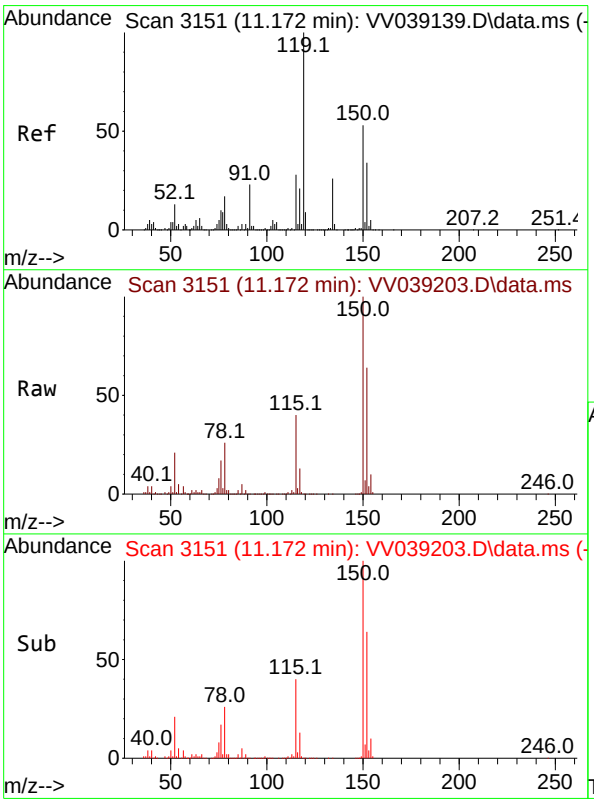
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Tgt Ion:117 Resp: 888919

Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.4	68.2
119	32.4	25.6	38.4

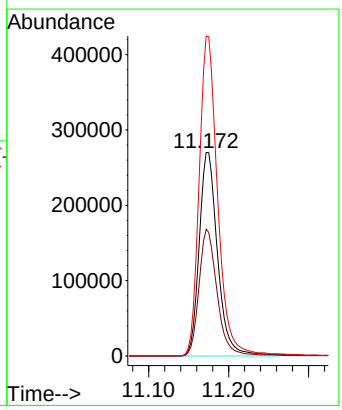




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion:152 Resp: 432706

Ion	Ratio	Lower	Upper
152	100		
115	61.0	44.8	134.4
150	158.7	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039203.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.362	94	100	107	rBV	26500	33767	1.25%	0.211%
2	4.503	1061	1077	1095	rBV	445656	1166270	43.20%	7.280%
3	4.600	1096	1107	1151	rVB	590263	1625055	60.19%	10.144%
4	4.944	1202	1214	1257	rBV	451129	1130577	41.88%	7.057%
5	5.535	1387	1398	1439	rBV	928227	2154841	79.82%	13.450%
6	7.236	1916	1927	1971	rBV	1352802	2586810	95.82%	16.147%
7	7.870	2110	2124	2136	rBV	24187	49723	1.84%	0.310%
8	8.776	2392	2406	2441	rBV	1563714	2699654	100.00%	16.851%
9	10.002	2775	2787	2816	rBV	1125347	1882630	69.74%	11.751%
10	10.317	2872	2885	2892	rBV4	30236	53833	1.99%	0.336%
11	11.172	3140	3151	3184	rBV	1630838	2637481	97.70%	16.463%

Sum of corrected areas: 16020641

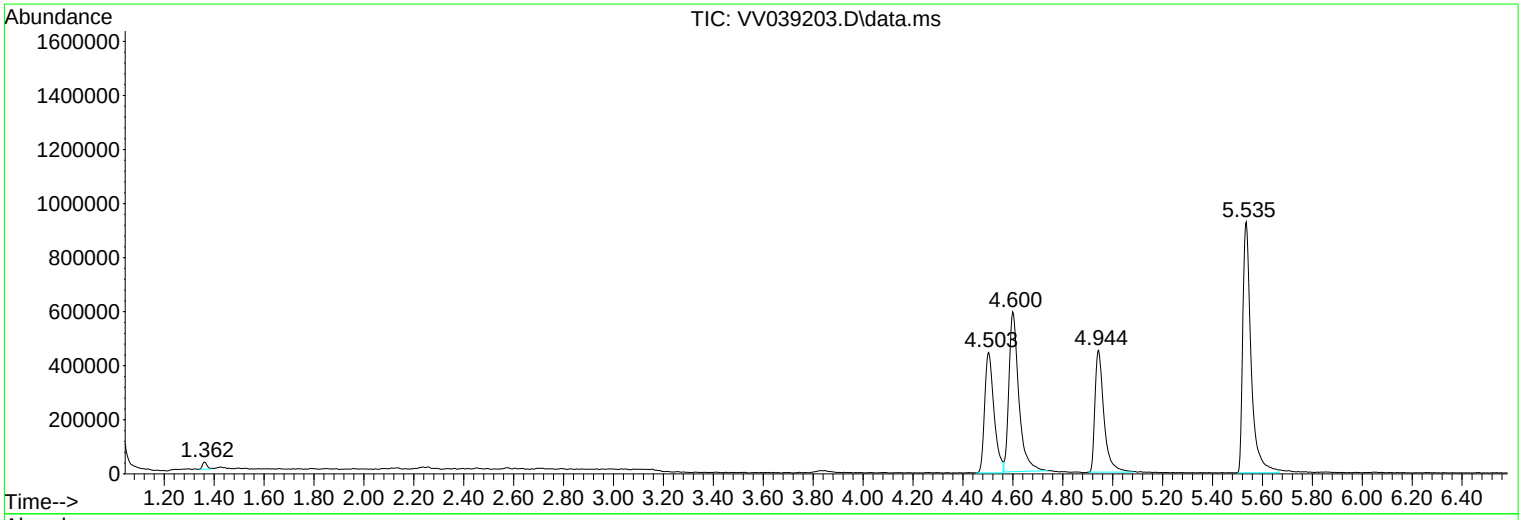
Sample Results: **VV039203.D**

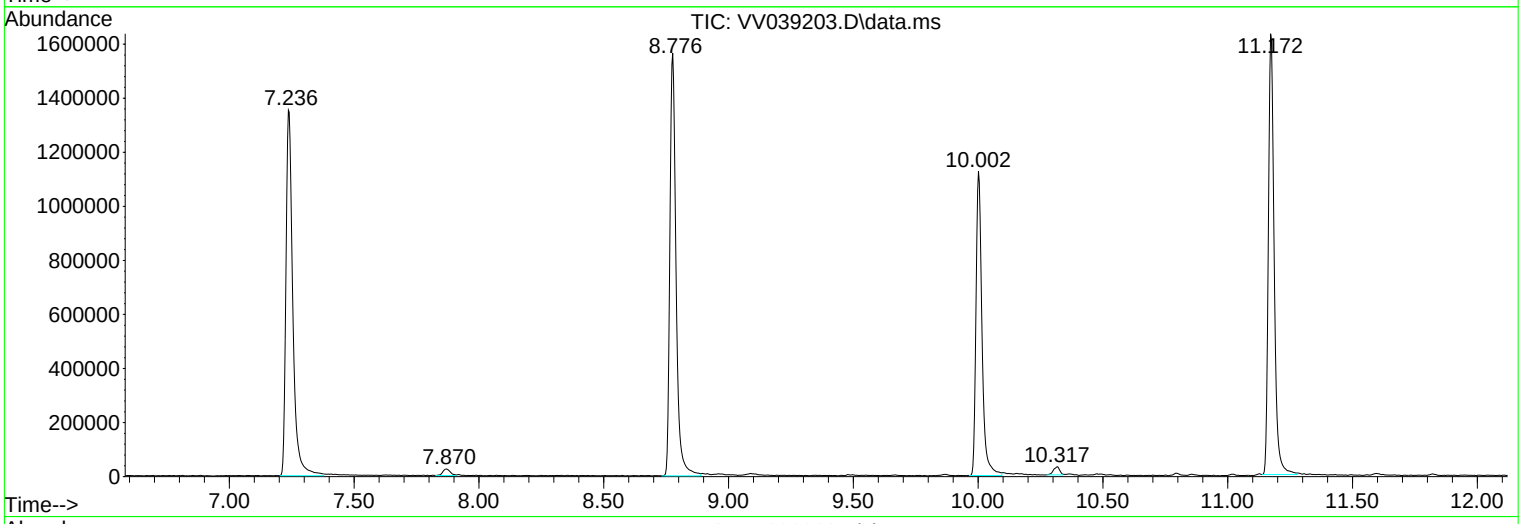
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

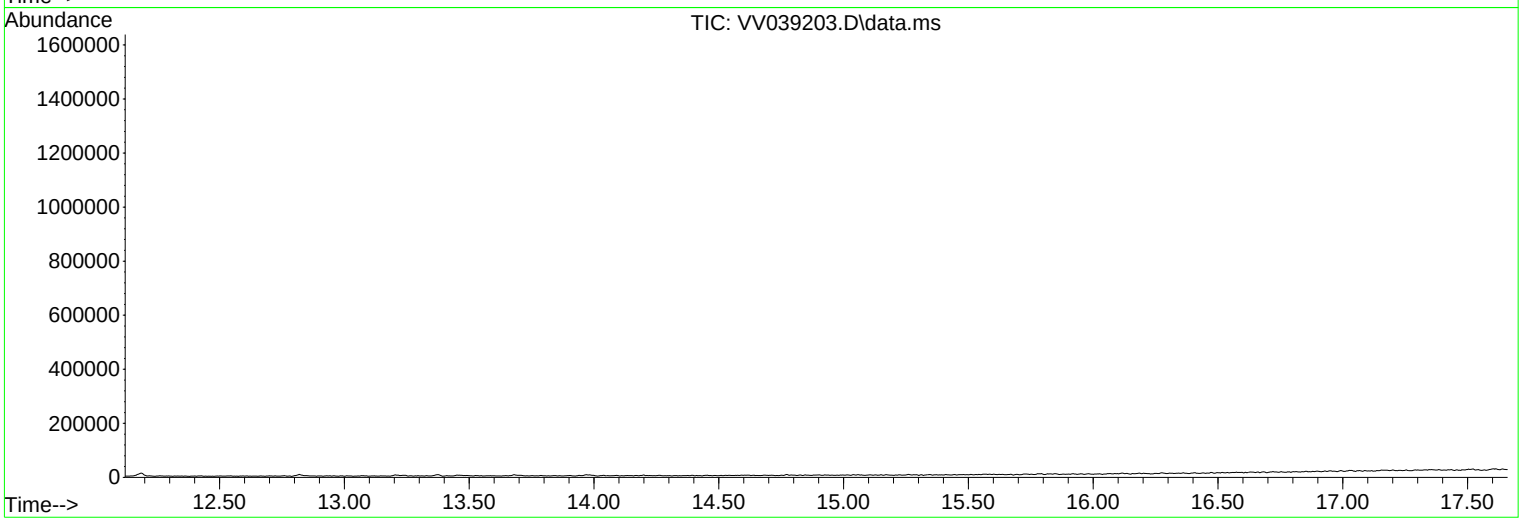
Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	FB-01-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-25	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039189.D	1	09/25/25 18:10	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	FB-01-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-25	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039189.D	1	09/25/25 18:10	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.0		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	46.1		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	562000	4.603			
540-36-3	1,4-Difluorobenzene	1000000	5.535			
3114-55-4	Chlorobenzene-d5	978000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	479000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/19/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	FB-01-091925	SDG No.:	Q3195
Lab Sample ID:	Q3195-25	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039189.D	1	09/25/25 18:10	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Quant Time: Sep 26 01:35:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

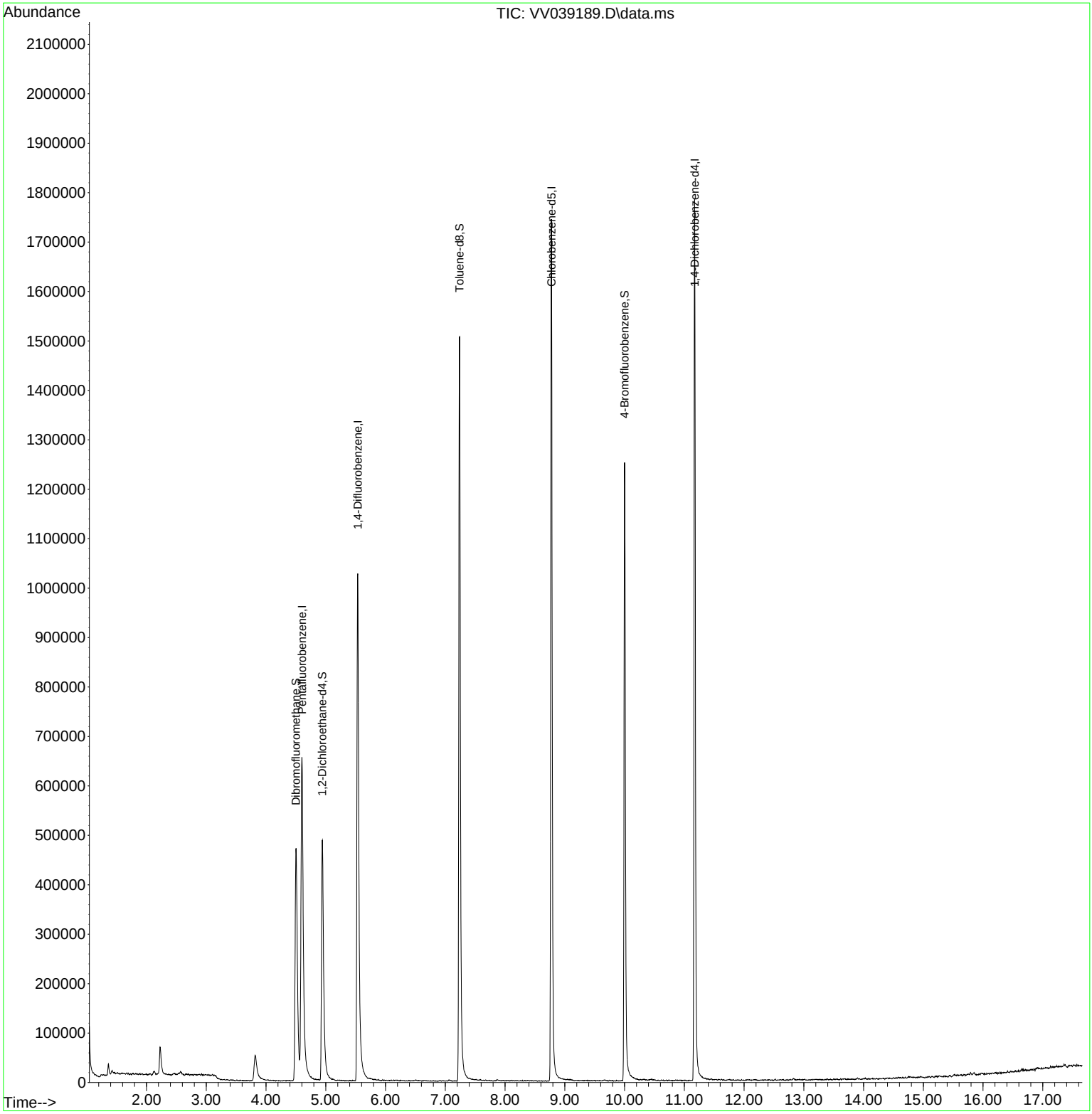
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	562300	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	1002078	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	977857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	478832	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	439118	53.958	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 107.920%			
35) Dibromofluoromethane	4.500	113	402765	49.996	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 100.000%			
50) Toluene-d8	7.240	98	1091605	46.137	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.280%			
62) 4-Bromofluorobenzene	10.001	95	438151	44.983	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.960%			
Target Compounds						Qvalue

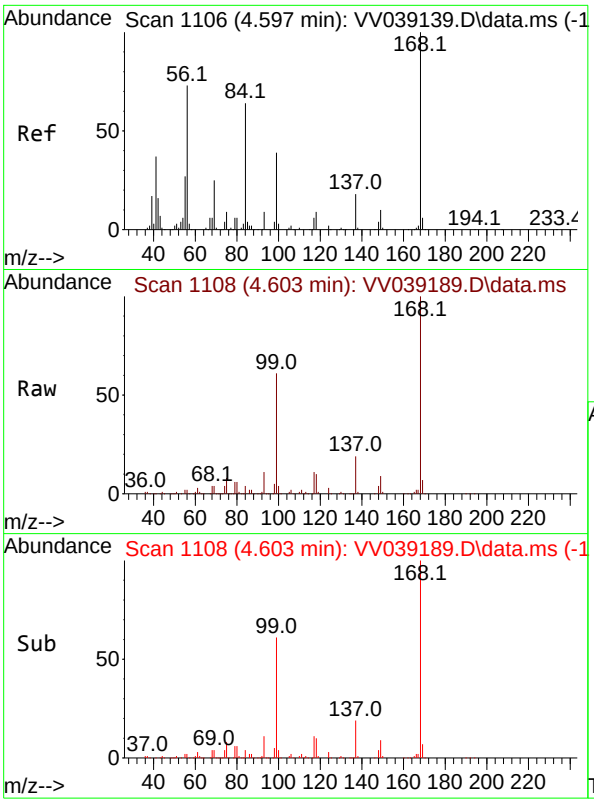
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Quant Time: Sep 26 01:35:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



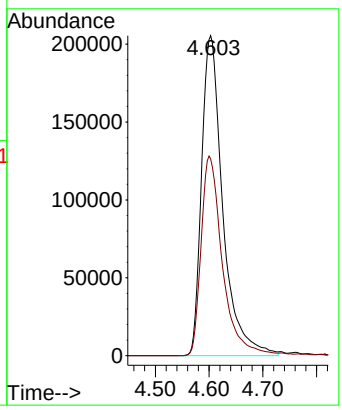


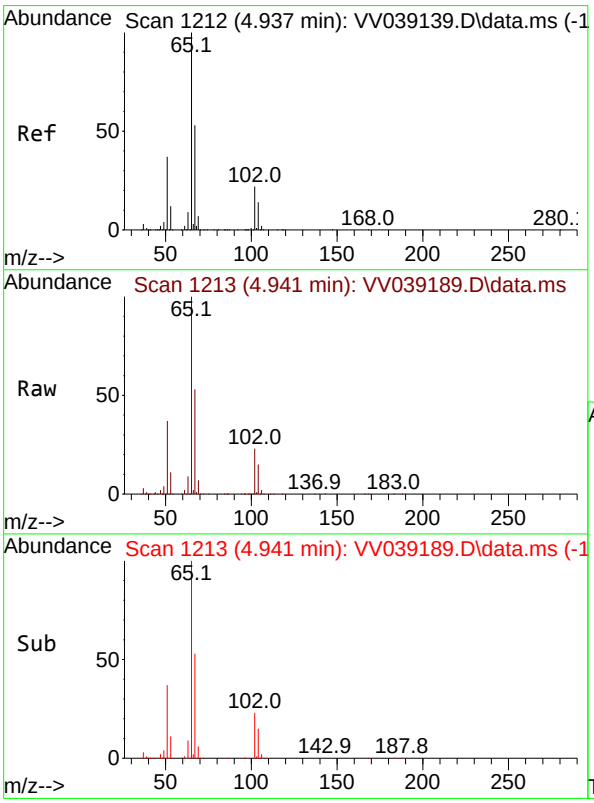
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Tgt Ion:168 Resp: 562300

Ion	Ratio	Lower	Upper
168	100		
99	61.5	49.6	74.4

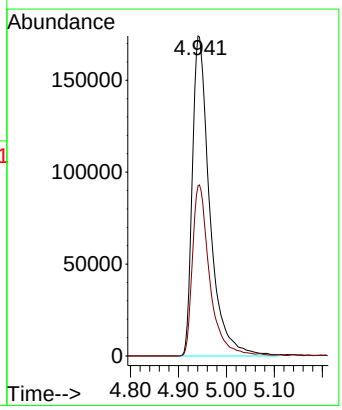


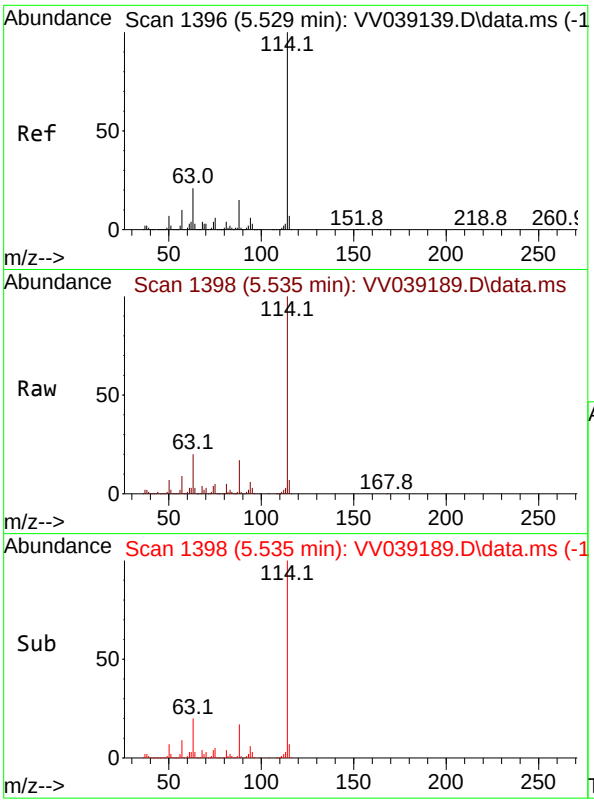


#33
1,2-Dichloroethane-d4
Concen: 53.958 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 65 Resp: 439118

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.0



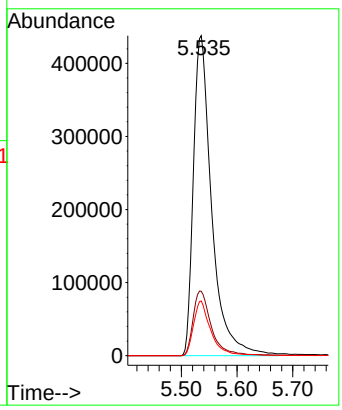


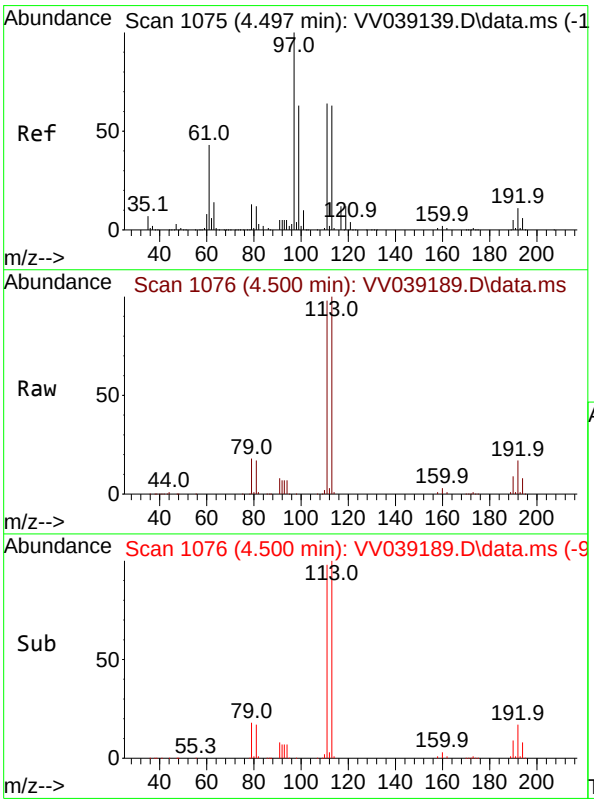
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Tgt Ion:114 Resp: 1002078

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	17.1	0.0	30.8

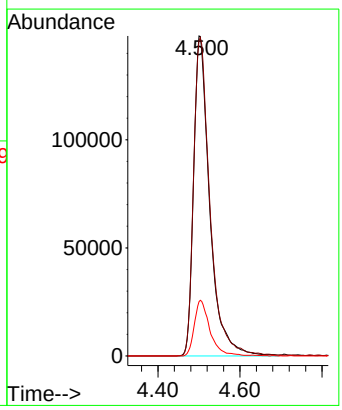


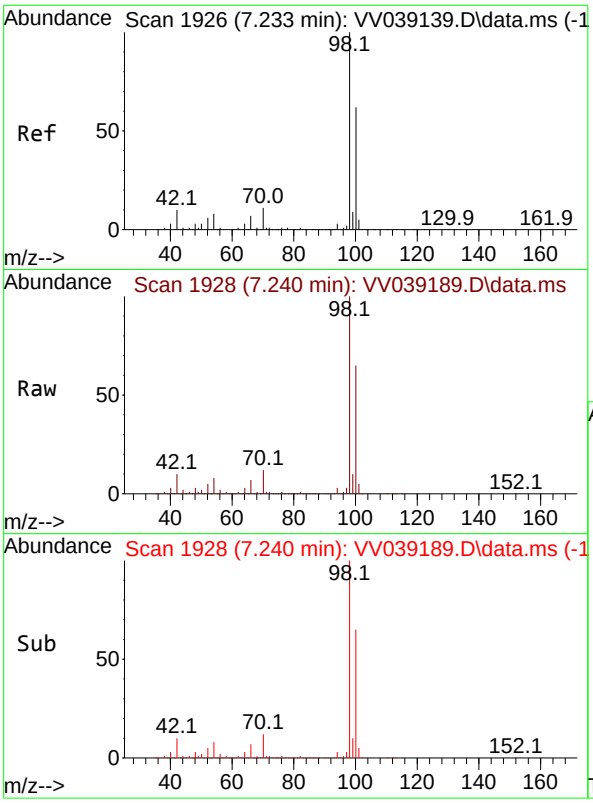


#35
Dibromofluoromethane
Concen: 49.996 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion:113 Resp: 402765

Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.4	123.6
192	16.9	13.8	20.8



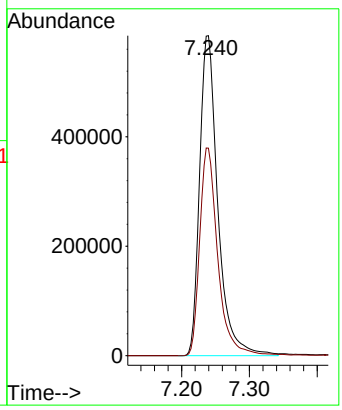


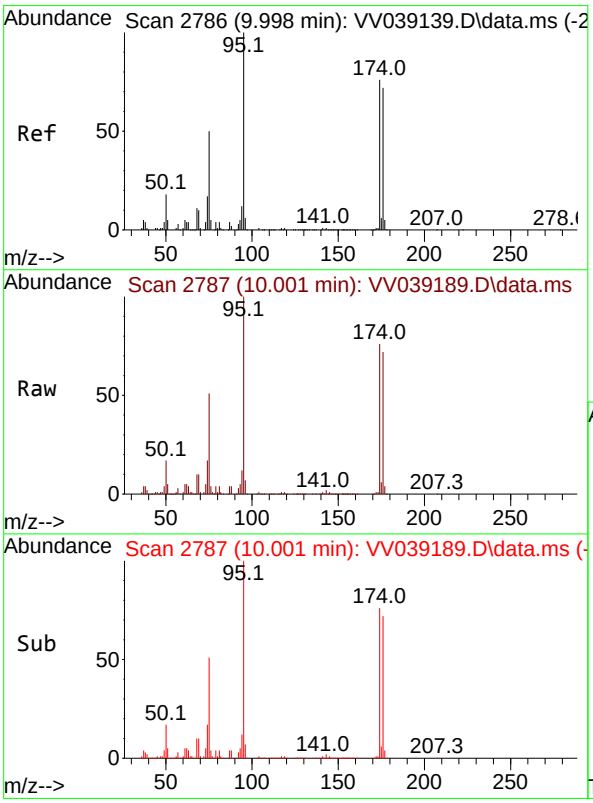
#50
Toluene-d8
Concen: 46.137 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Tgt Ion: 98 Resp: 1091605

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.2

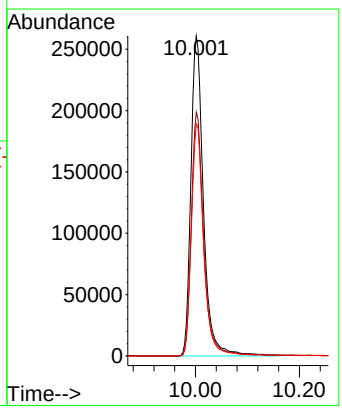


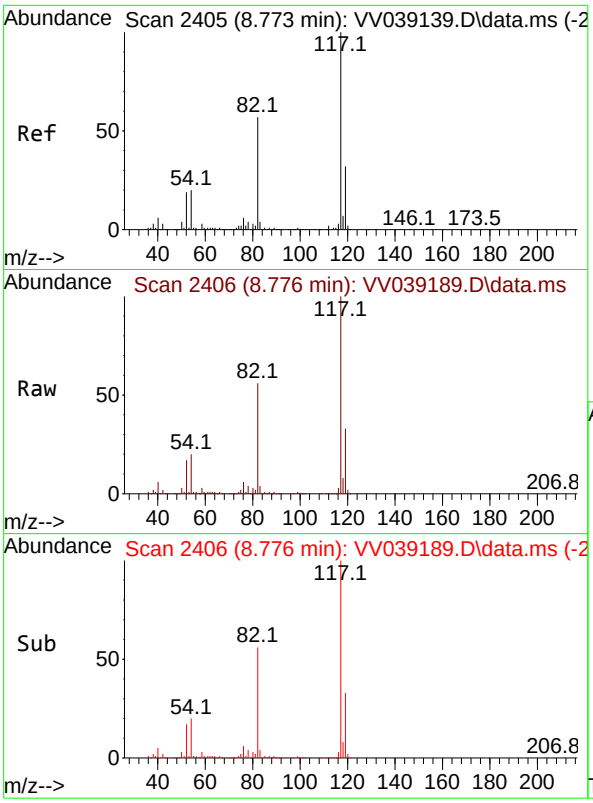


#62
4-Bromofluorobenzene
Concen: 44.983 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 95 Resp: 438151

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	150.4
176	70.8	0.0	144.2



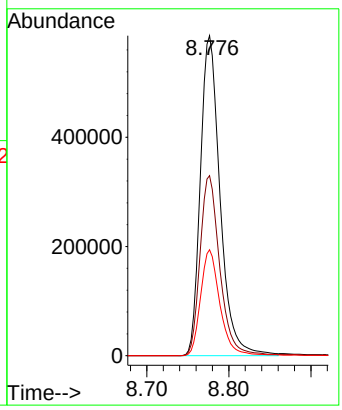


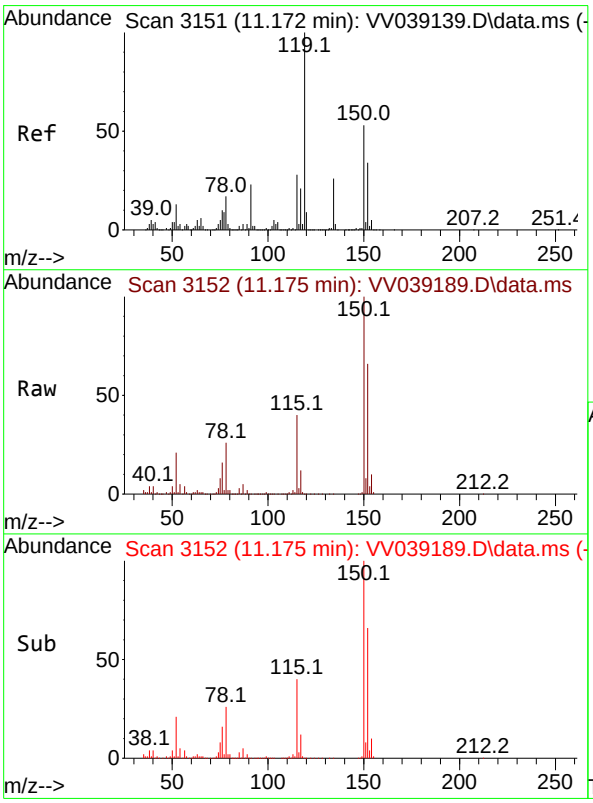
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Tgt Ion:117 Resp: 977857

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.4	68.2
119	33.1	25.6	38.4

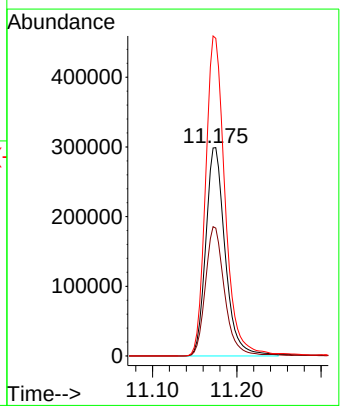




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion:152 Resp: 478832

Ion	Ratio	Lower	Upper
152	100		
115	61.1	44.8	134.4
150	153.6	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039189.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.362	93	100	111	rBV	22526	32651	1.10%	0.185%
2	2.227	361	369	390	rVB2	54499	114168	3.85%	0.646%
3	3.818	848	864	884	rBV2	51190	165504	5.58%	0.937%
4	4.503	1061	1077	1095	rBV3	469869	1235176	41.66%	6.990%
5	4.600	1096	1107	1153	rVB2	649031	1791995	60.44%	10.141%
6	4.944	1201	1214	1250	rBV	485529	1211504	40.86%	6.856%
7	5.535	1386	1398	1442	rBV	1026011	2368673	79.89%	13.404%
8	7.240	1914	1928	1954	rBV	1506644	2829473	95.43%	16.012%
9	8.776	2393	2406	2444	rBV	1743537	2965011	100.00%	16.779%
10	10.001	2775	2787	2820	rBV	1250997	2090657	70.51%	11.831%
11	11.172	3139	3151	3176	rBV	1783590	2866023	96.66%	16.219%

Sum of corrected areas: 17670835

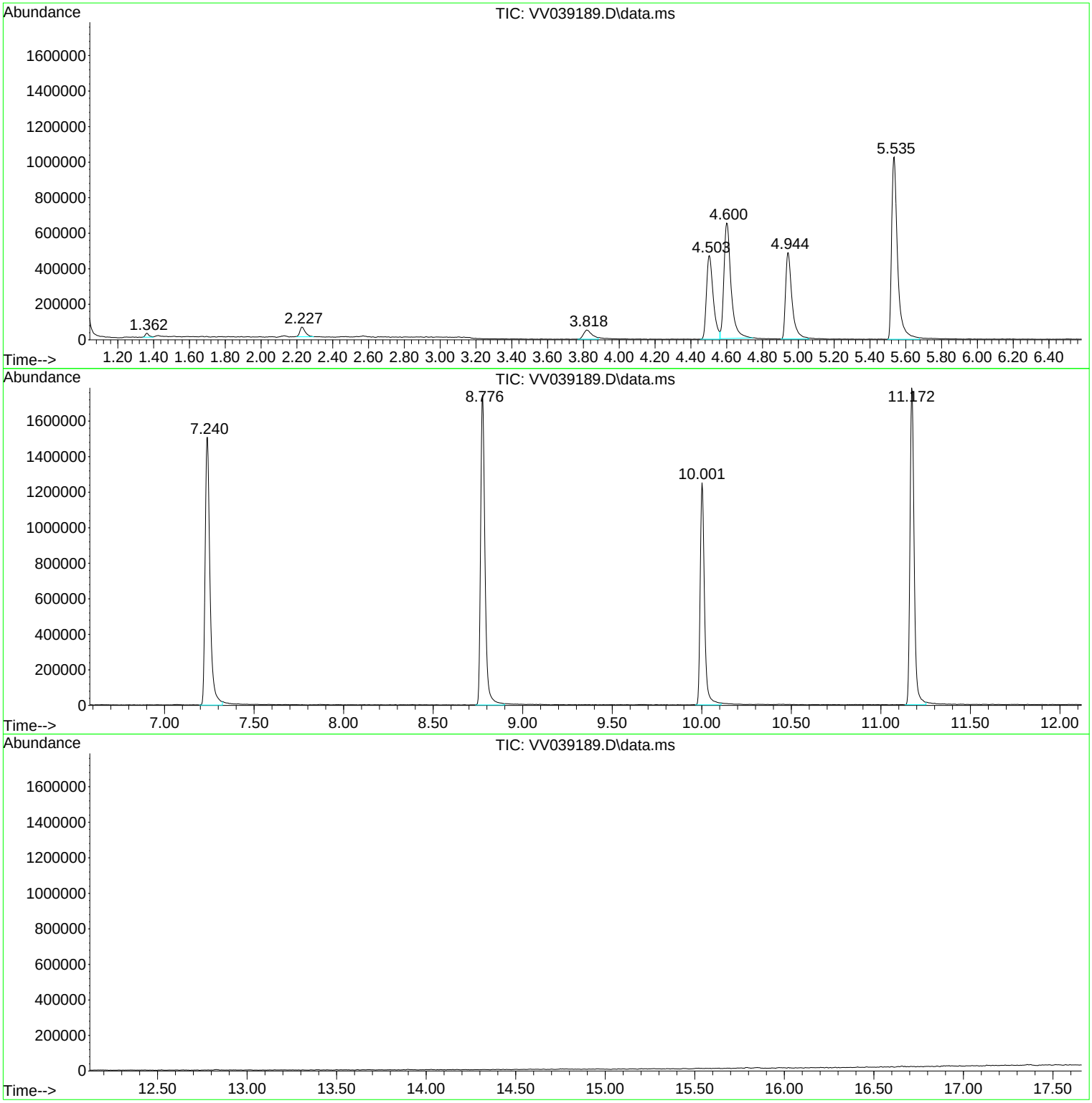
Sample Results: **VV039189.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	FB-02-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-26	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039190.D	1	09/25/25 18:32	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	FB-02-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-26	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039190.D	1	09/25/25 18:32	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	46.0		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	558000	4.603			
540-36-3	1,4-Difluorobenzene	1000000	5.532			
3114-55-4	Chlorobenzene-d5	984000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	478000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/22/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	FB-02-092225	SDG No.:	Q3195
Lab Sample ID:	Q3195-26	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039190.D	1	09/25/25 18:32	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Quant Time: Sep 26 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

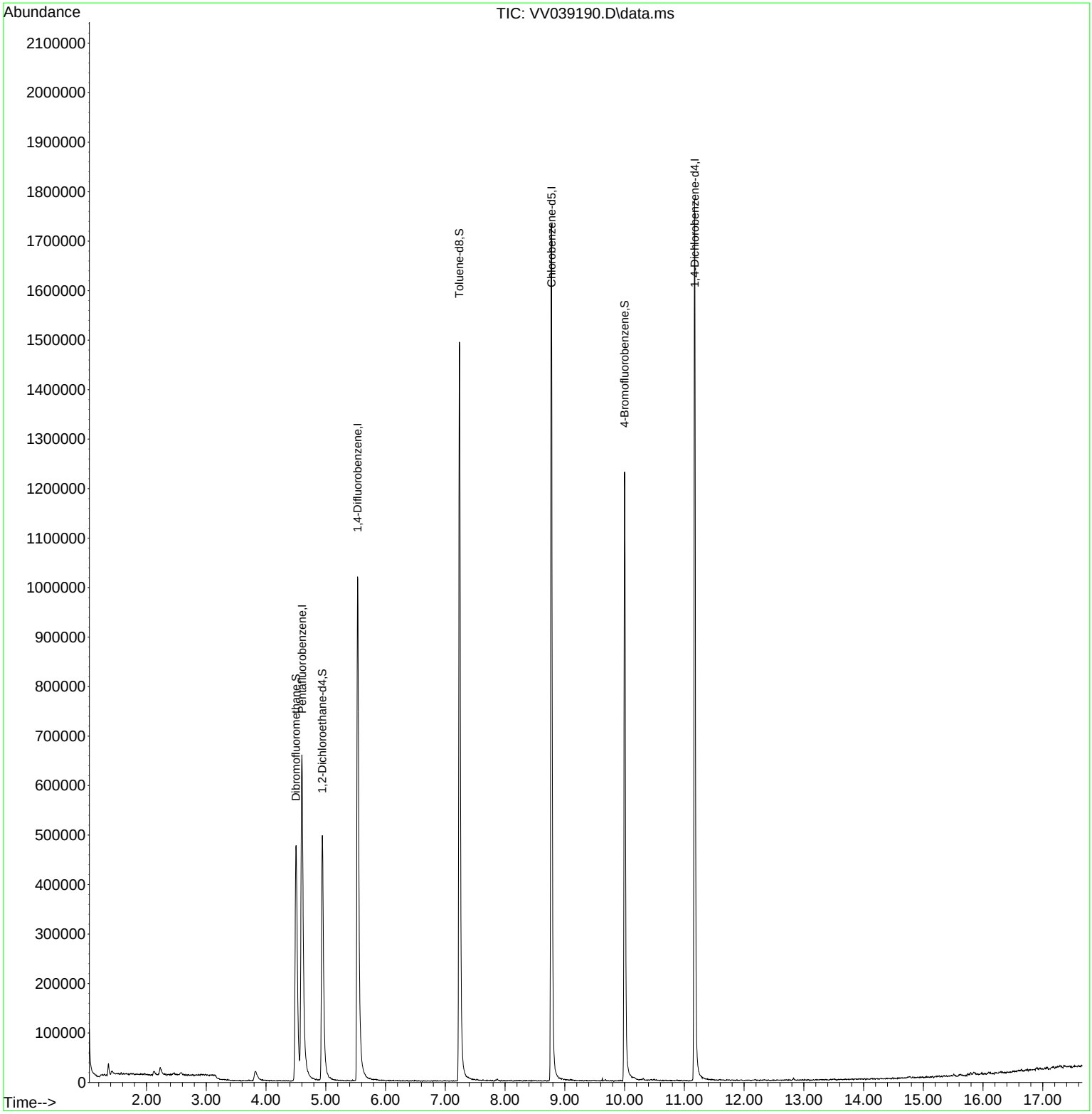
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	557526	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1004933	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	984426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	478455	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	436755	54.127	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 108.260%			
35) Dibromofluoromethane	4.503	113	403467	49.941	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 99.880%			
50) Toluene-d8	7.236	98	1090916	45.977	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.960%			
62) 4-Bromofluorobenzene	10.001	95	429135	43.933	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.860%			
Target Compounds						Qvalue

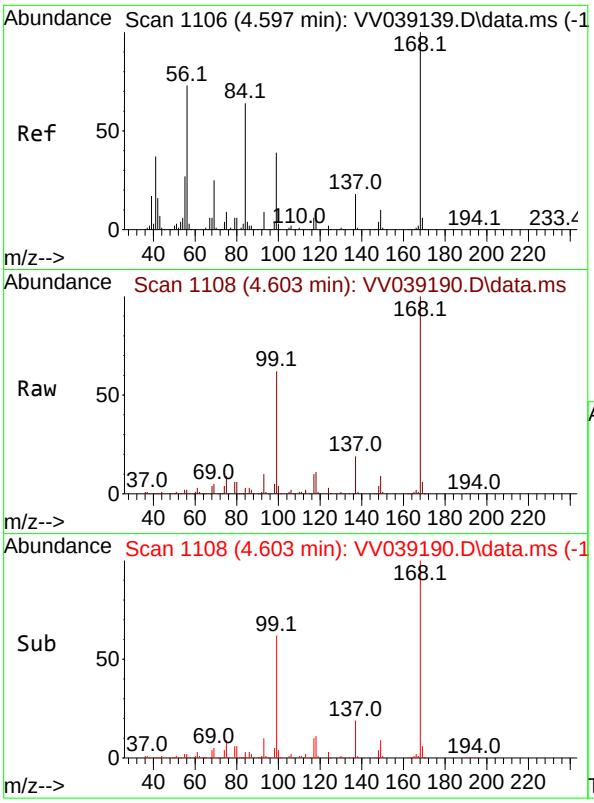
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Quant Time: Sep 26 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



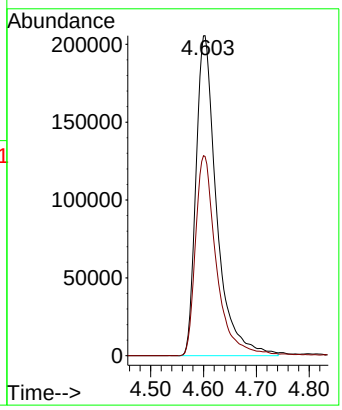


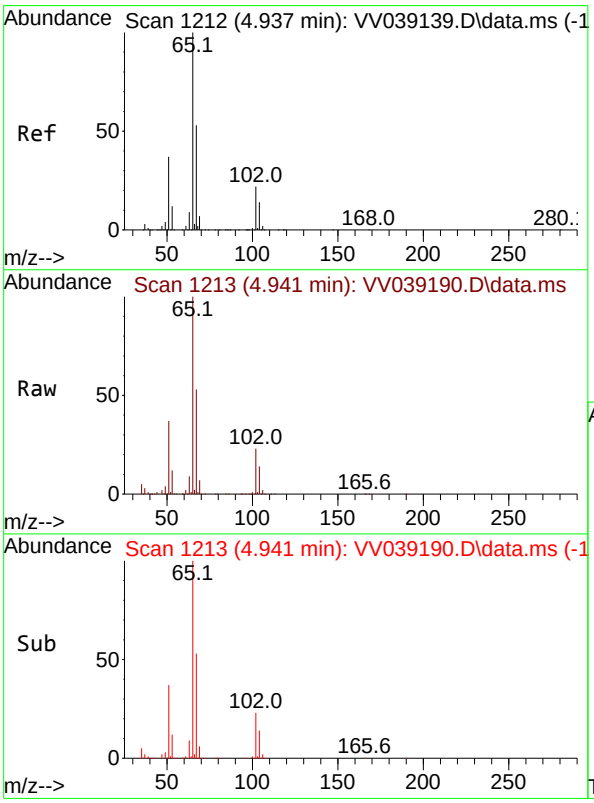
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Tgt Ion:168 Resp: 557526

Ion	Ratio	Lower	Upper
168	100		
99	62.3	49.6	74.4

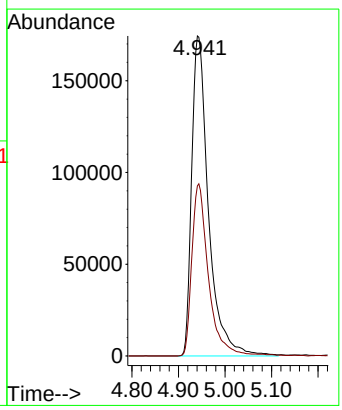


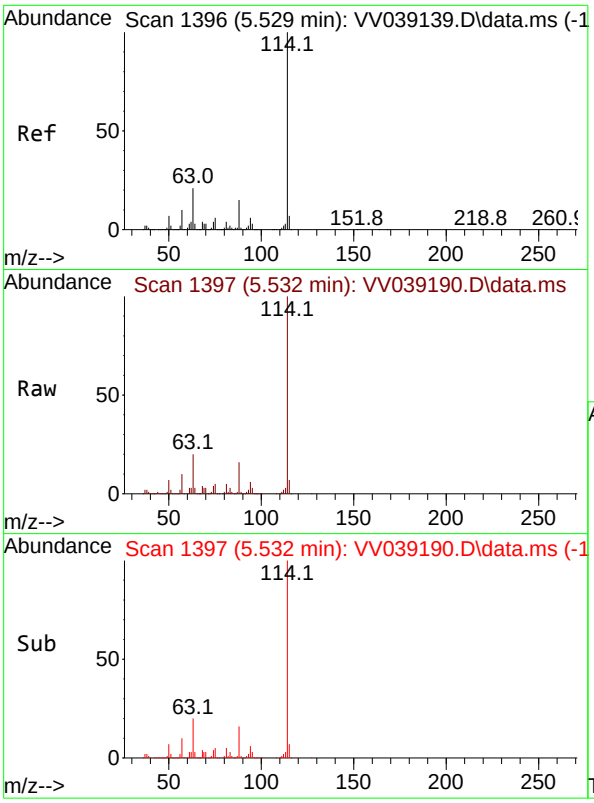


#33
1,2-Dichloroethane-d4
Concen: 54.127 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion: 65 Resp: 436755

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	107.0



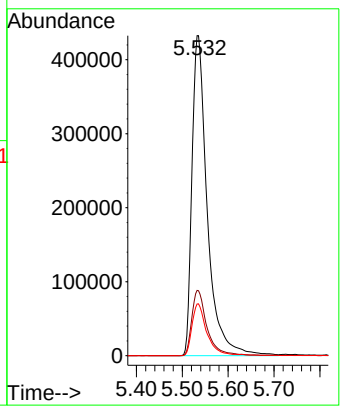


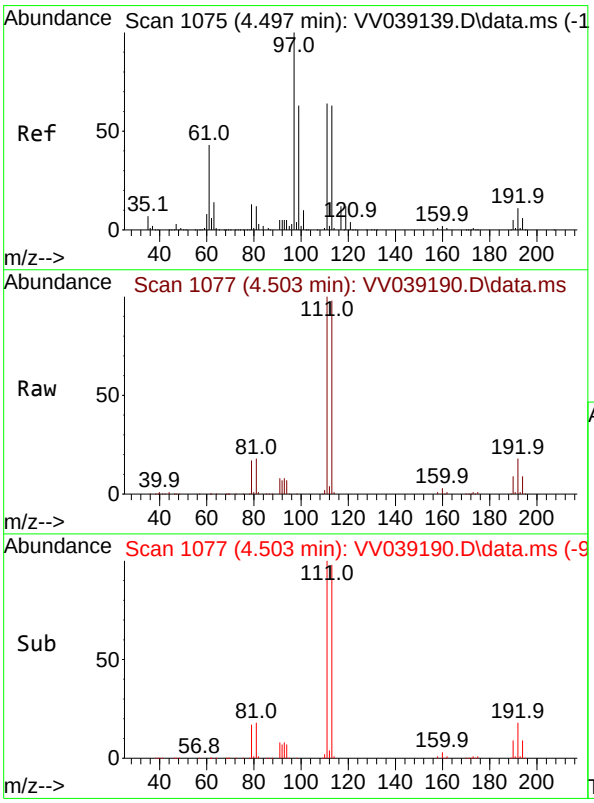
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Tgt Ion:114 Resp: 1004933

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.6
88	16.1	0.0	30.8

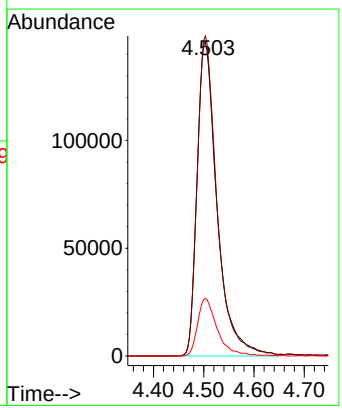


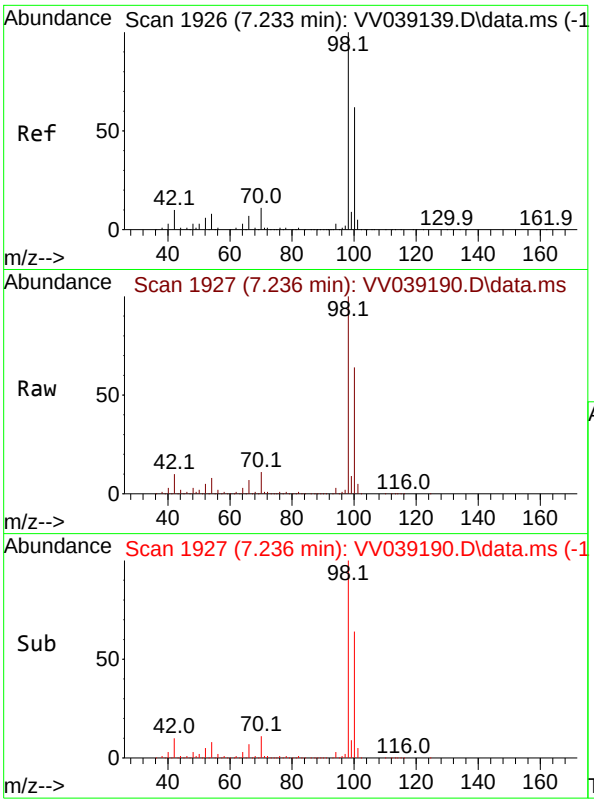


#35
Dibromofluoromethane
Concen: 49.941 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion:113 Resp: 403467

Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.4	123.6
192	17.9	13.8	20.8



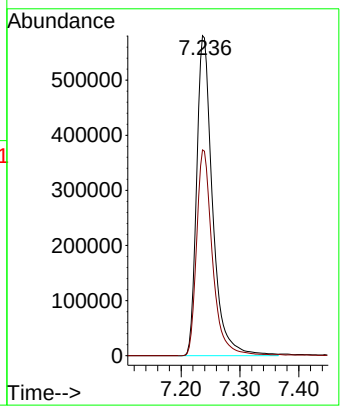


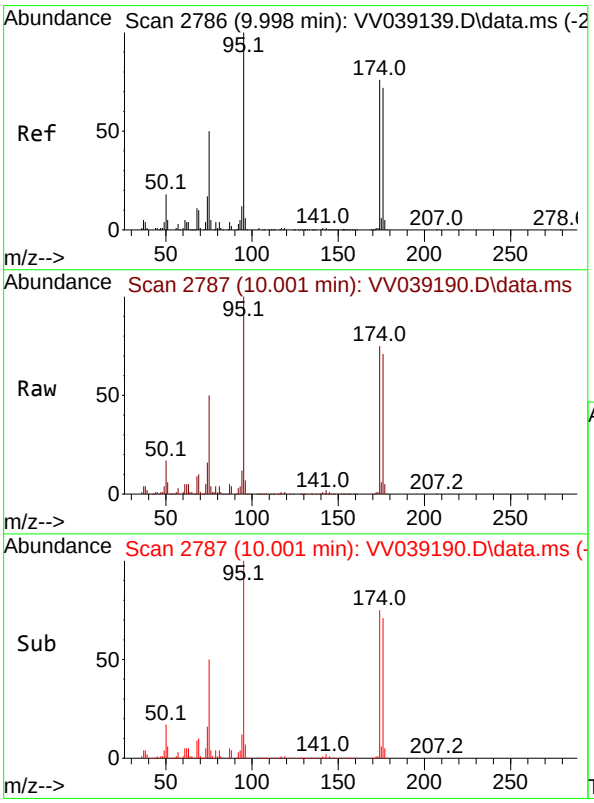
#50
Toluene-d8
Concen: 45.977 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Tgt Ion: 98 Resp: 1090916

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.2

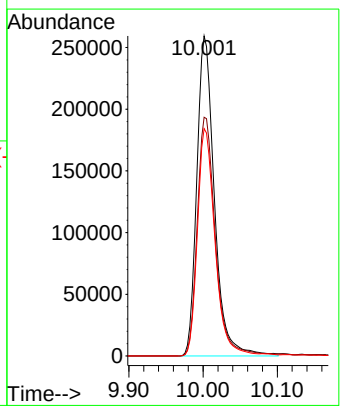


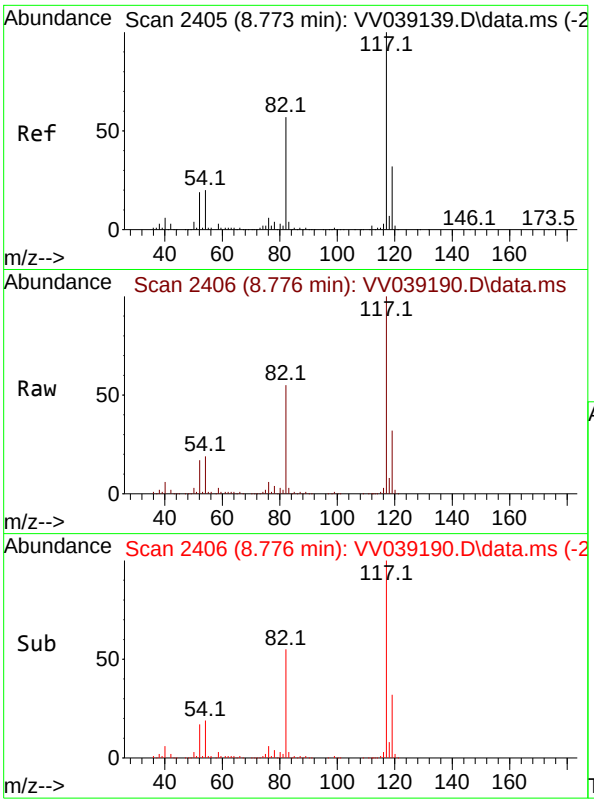


#62
4-Bromofluorobenzene
Concen: 43.933 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion: 95 Resp: 429135

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	150.4
176	71.4	0.0	144.2



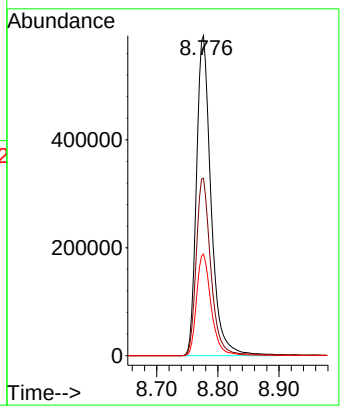


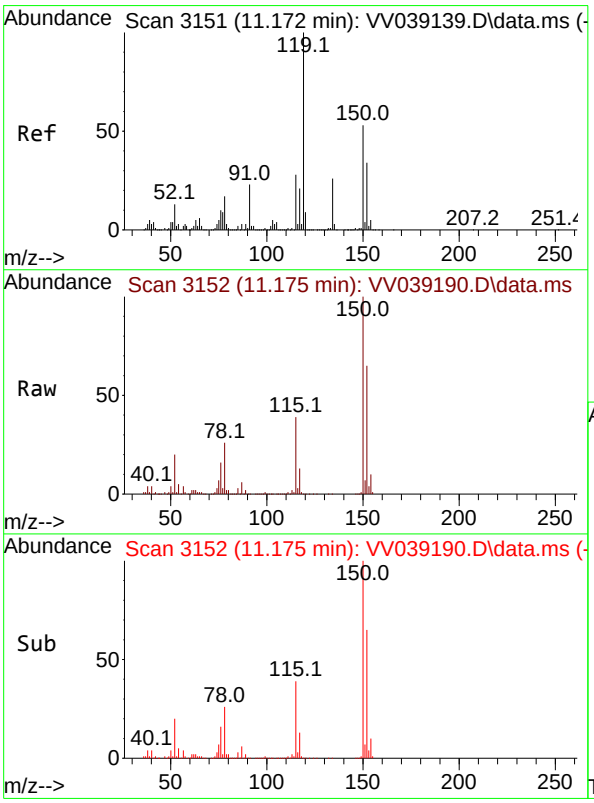
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Tgt Ion:117 Resp: 984426

Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.4	68.2
119	31.7	25.6	38.4

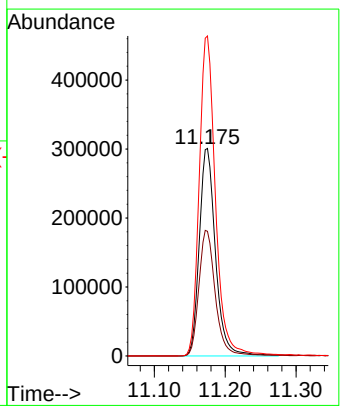




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion:152 Resp: 478455

Ion	Ratio	Lower	Upper
152	100		
115	61.5	44.8	134.4
150	154.9	0.0	353.8



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039190.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.362	93	100	111	rBV	24244	36995	1.26%	0.213%
2	3.822	852	865	886	rBV	18947	67122	2.29%	0.387%
3	4.503	1059	1077	1095	rBV	475618	1246790	42.57%	7.186%
4	4.600	1095	1107	1138	rVB	644554	1708643	58.33%	9.848%
5	4.944	1201	1214	1252	rBV	493739	1211039	41.35%	6.980%
6	5.532	1386	1397	1453	rBV	1018078	2366073	80.78%	13.638%
7	7.236	1916	1927	1962	rBV	1493191	2831580	96.67%	16.321%
8	8.776	2392	2406	2437	rBV	1731734	2929097	100.00%	16.883%
9	10.001	2777	2787	2816	rBV	1230398	2068711	70.63%	11.924%
10	11.172	3135	3151	3185	rBV	1781979	2883324	98.44%	16.619%

Sum of corrected areas: 17349374

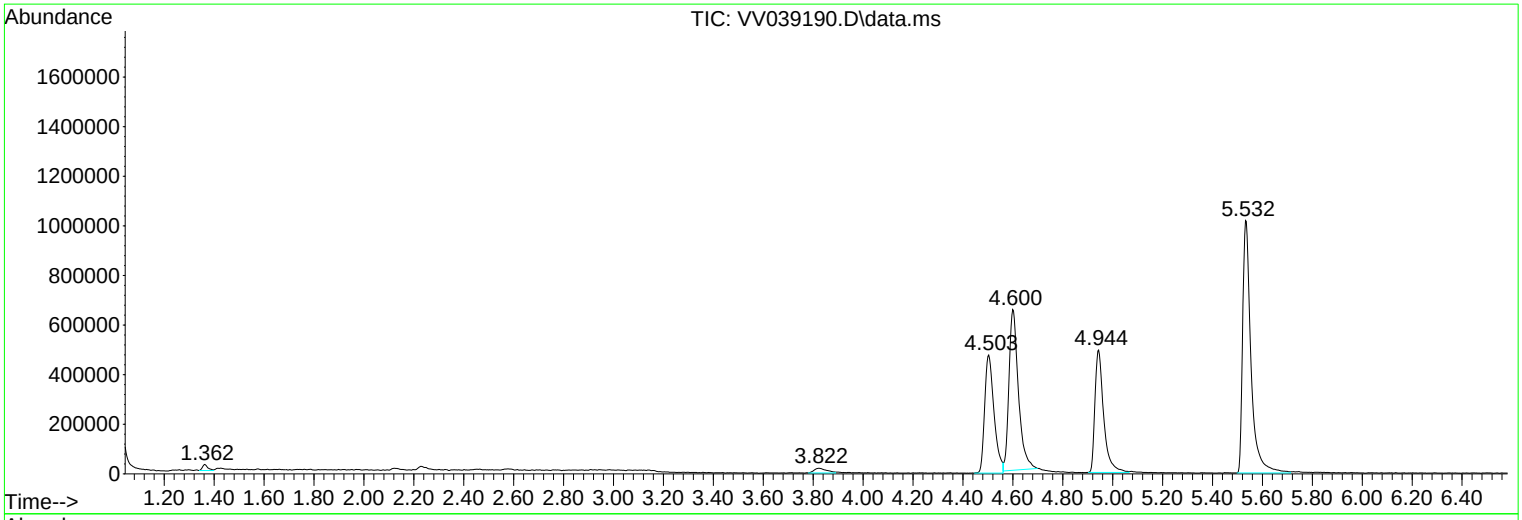
Sample Results: **VV039190.D**

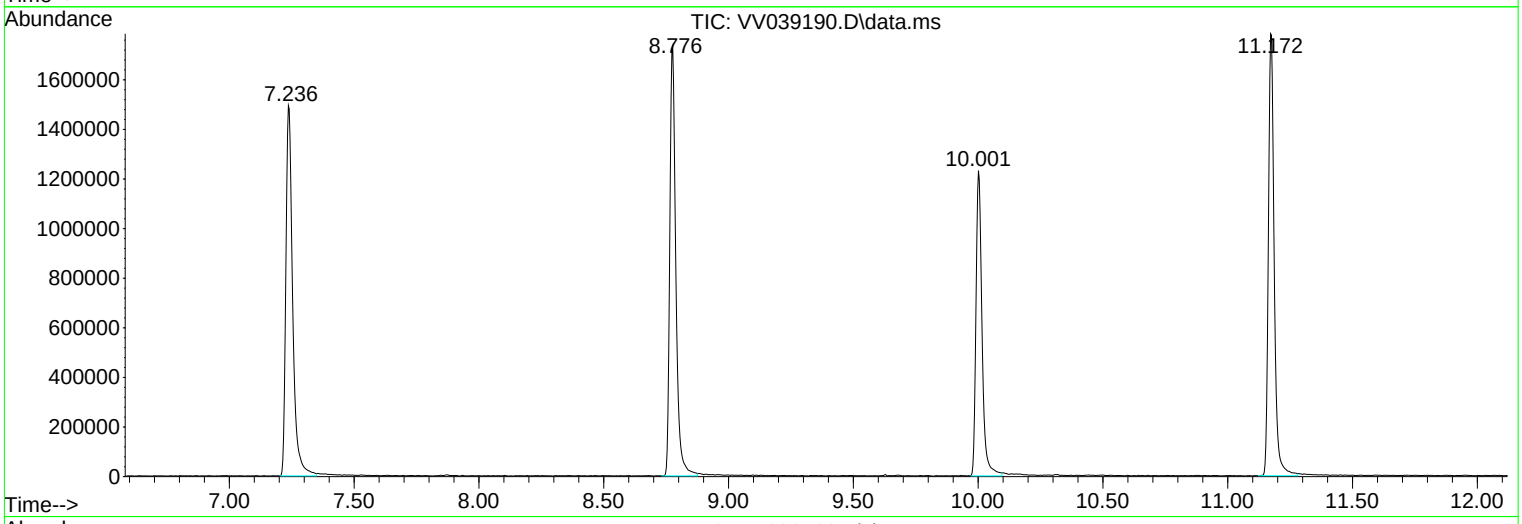
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

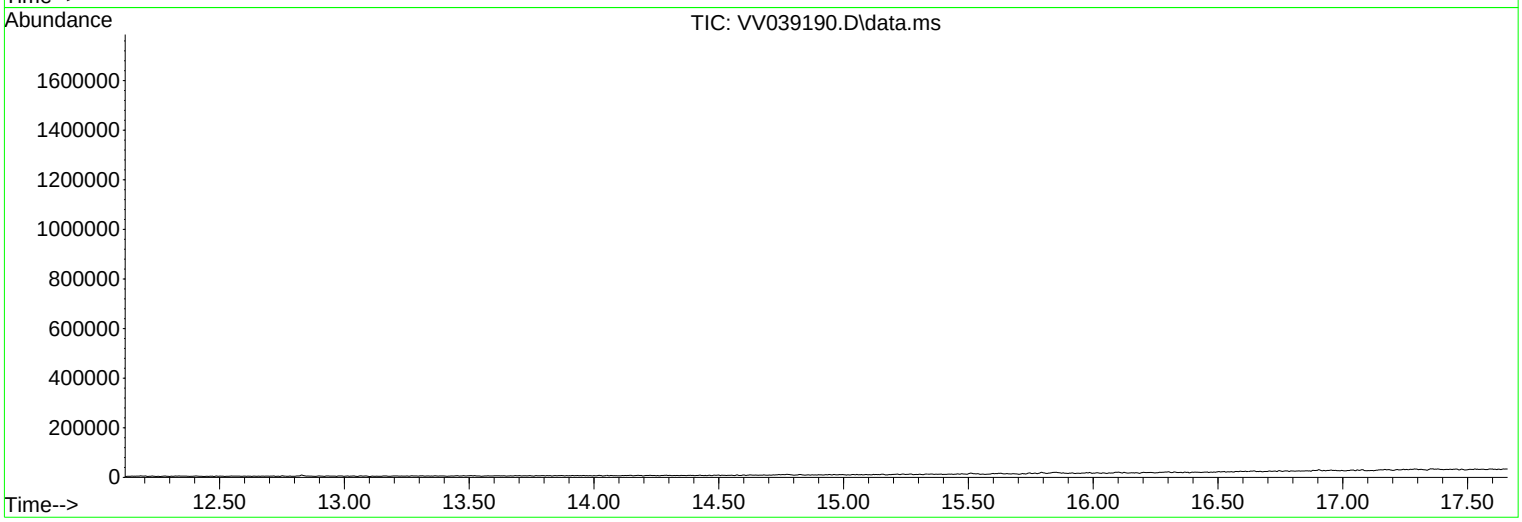
Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
FB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/15/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	TB-01-091525	SDG No.:	Q3195
Lab Sample ID:	Q3195-27	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039191.D	1	09/25/25 18:55	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/15/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	TB-01-091525	SDG No.:	Q3195
Lab Sample ID:	Q3195-27	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039191.D	1	09/25/25 18:55	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.5		74 - 125	109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	467000	4.603			
540-36-3	1,4-Difluorobenzene	829000	5.535			
3114-55-4	Chlorobenzene-d5	809000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	385000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/15/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	TB-01-091525	SDG No.:	Q3195
Lab Sample ID:	Q3195-27	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039191.D	1	09/25/25 18:55	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Quant Time: Sep 26 01:36:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

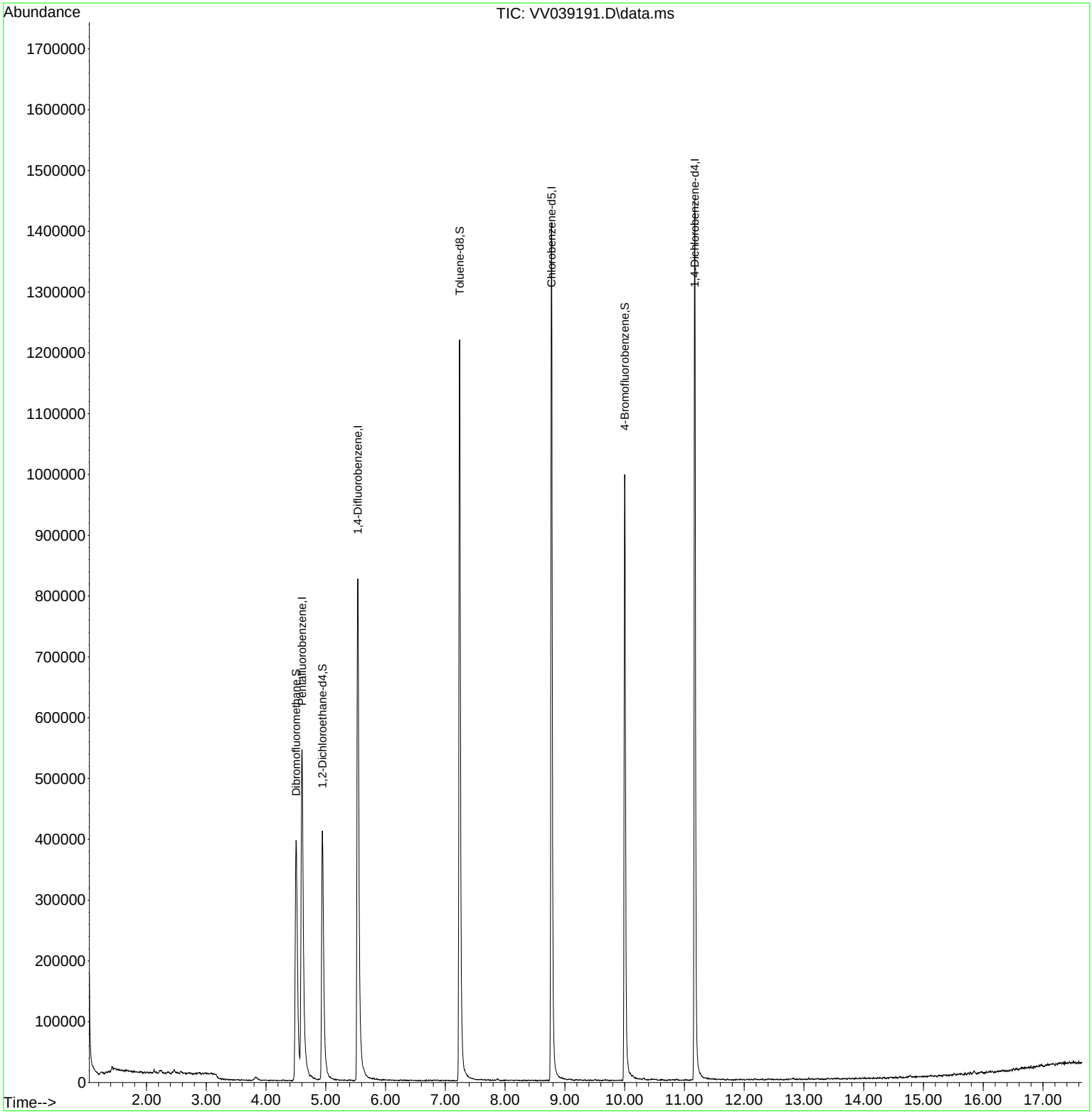
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	466916	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	828915	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	809498	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	384637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	368405	54.517	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 109.040%			
35) Dibromofluoromethane	4.503	113	338536	50.802	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 101.600%			
50) Toluene-d8	7.239	98	895565	45.758	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.520%			
62) 4-Bromofluorobenzene	10.001	95	354206	43.962	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.920%			
Target Compounds						Qvalue

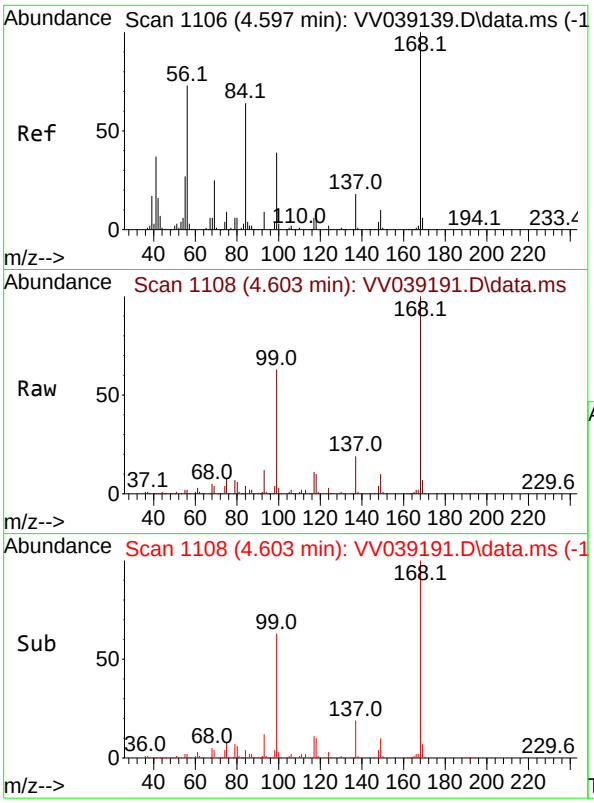
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Quant Time: Sep 26 01:36:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



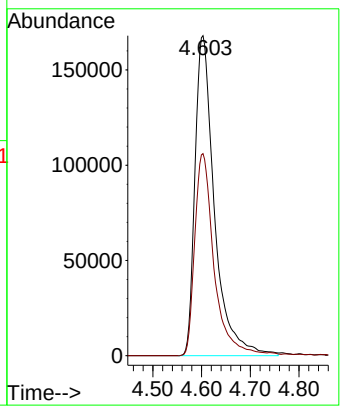


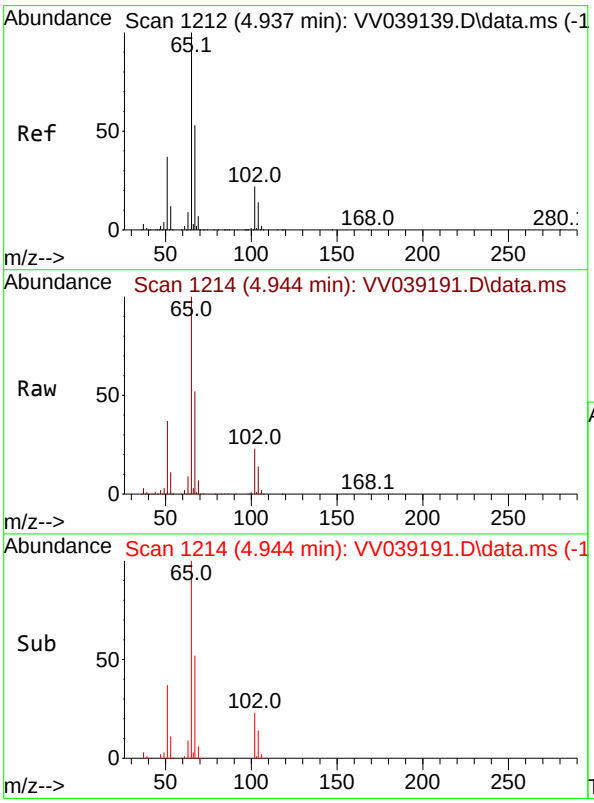
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Tgt Ion:168 Resp: 466916

Ion	Ratio	Lower	Upper
168	100		
99	63.1	49.6	74.4

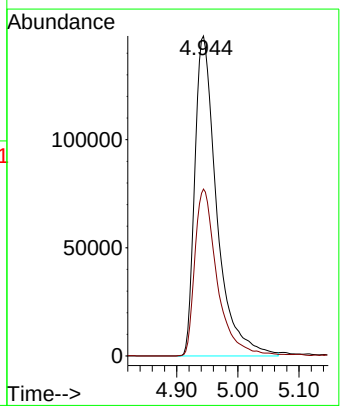


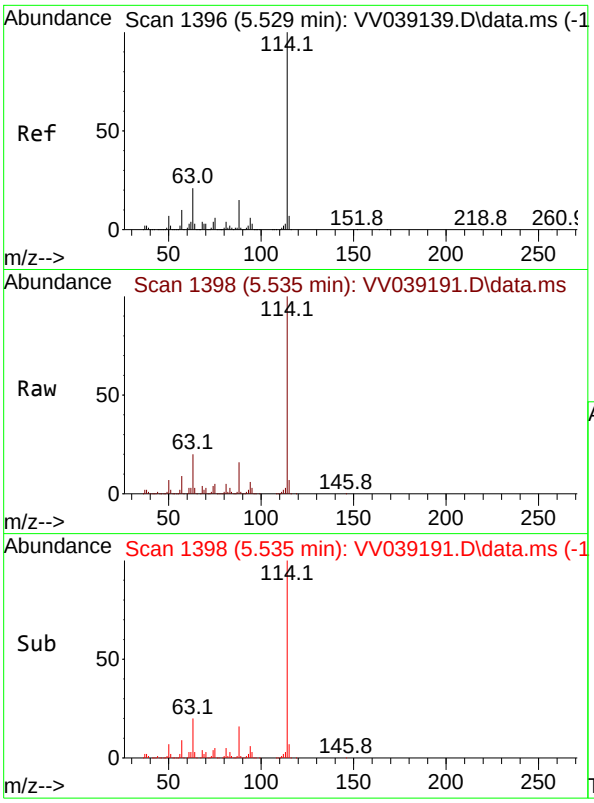


#33
1,2-Dichloroethane-d4
Concen: 54.517 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 65 Resp: 368405

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	107.0



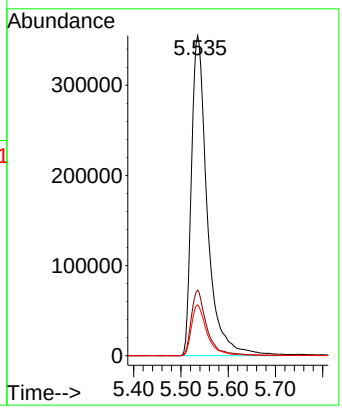


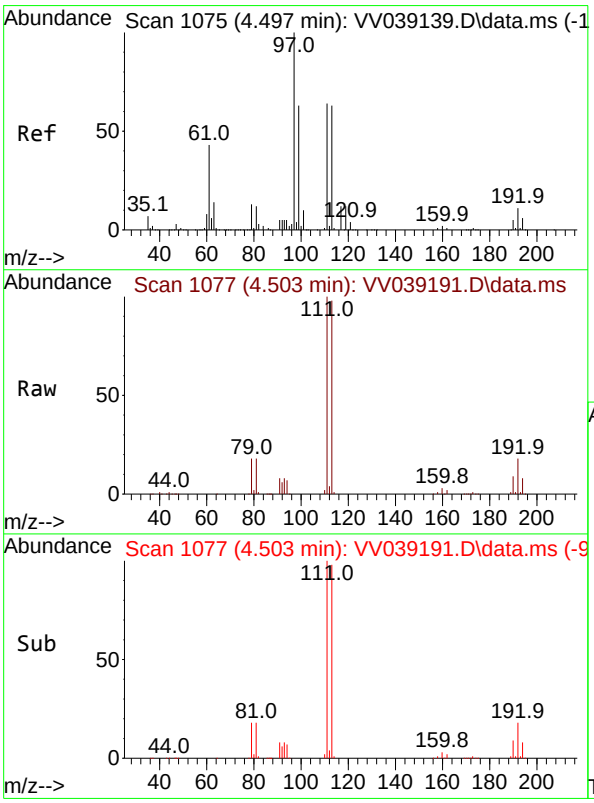
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Tgt Ion:114 Resp: 828915

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.6
88	15.9	0.0	30.8

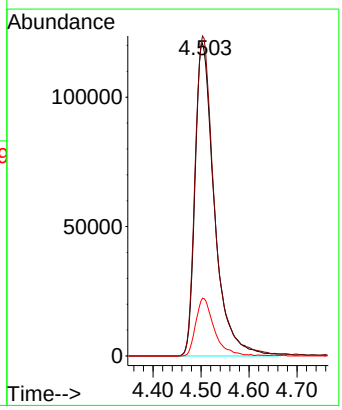


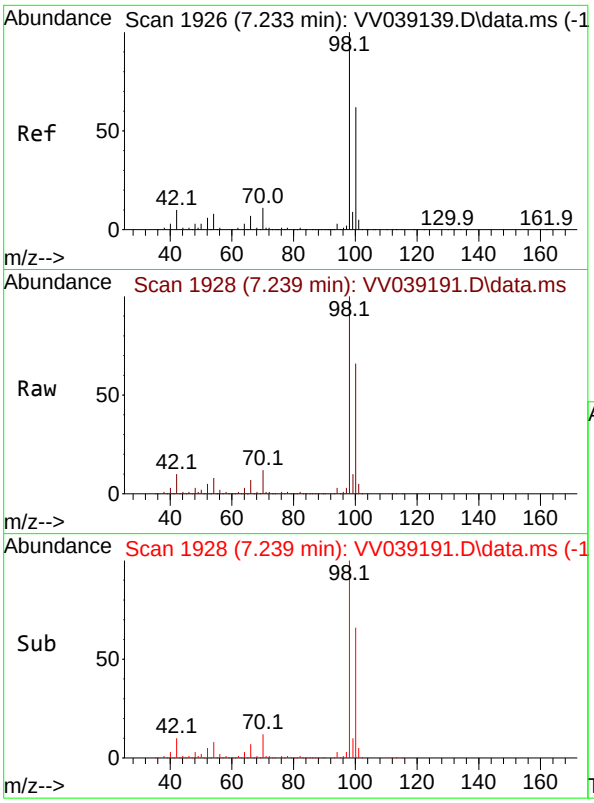


#35
Dibromofluoromethane
Concen: 50.802 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion:113 Resp: 338536

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	17.5	13.8	20.8



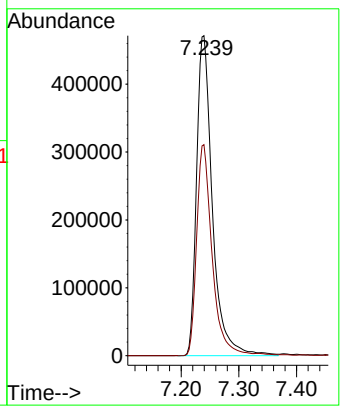


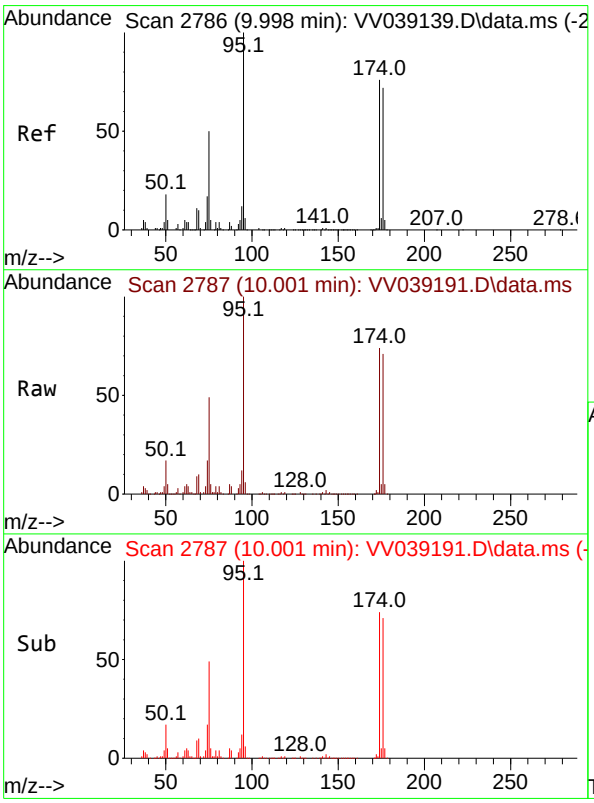
#50
Toluene-d8
Concen: 45.758 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Tgt Ion: 98 Resp: 895565

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2

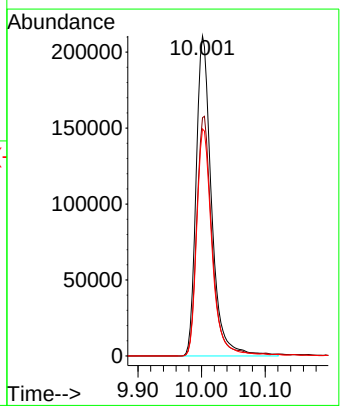


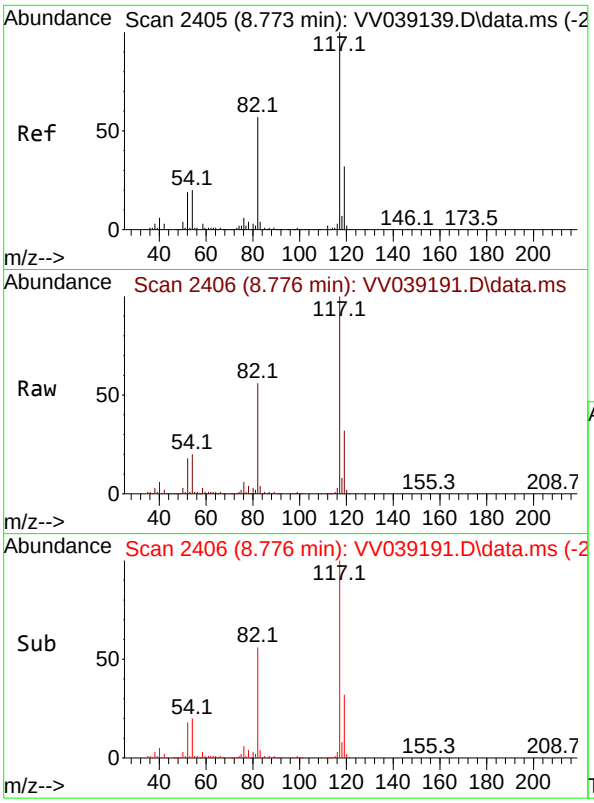


#62
4-Bromofluorobenzene
Concen: 43.962 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 95 Resp: 354206

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	150.4
176	70.1	0.0	144.2



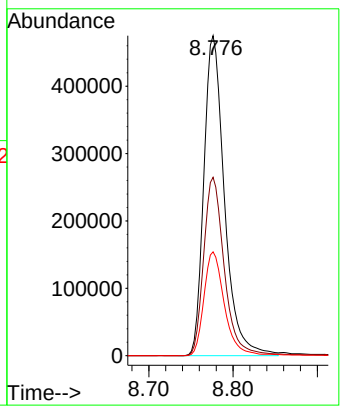


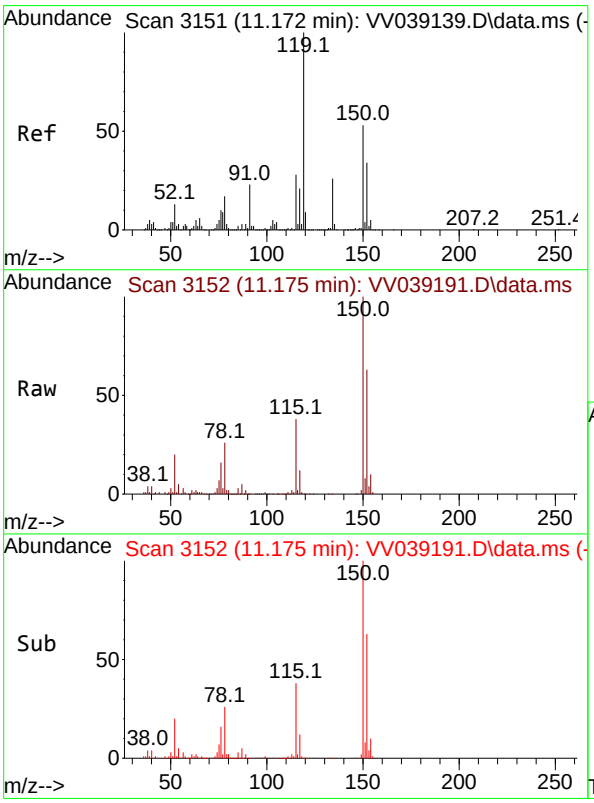
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Tgt Ion:117 Resp: 809498

Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.4	68.2
119	32.4	25.6	38.4

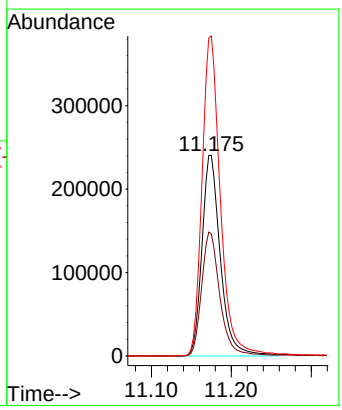




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion:152 Resp: 384637

Ion	Ratio	Lower	Upper
152	100		
115	61.6	44.8	134.4
150	160.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039191.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.503	1062	1077	1096	rBV	394375	1051430	42.74%	7.353%
2	4.600	1096	1107	1149	rVB	538909	1488433	60.51%	10.409%
3	4.940	1200	1213	1252	rBV	408840	1032275	41.96%	7.219%
4	5.535	1387	1398	1442	rBV	824157	1935935	78.70%	13.539%
5	7.239	1915	1928	1953	rBV	1219126	2311512	93.97%	16.166%
6	8.776	2394	2406	2444	rBV	1411940	2459970	100.00%	17.204%
7	10.001	2776	2787	2814	rBV	997214	1677527	68.19%	11.732%
8	11.172	3141	3151	3179	rBV	1449169	2341850	95.20%	16.378%

Sum of corrected areas: 14298932

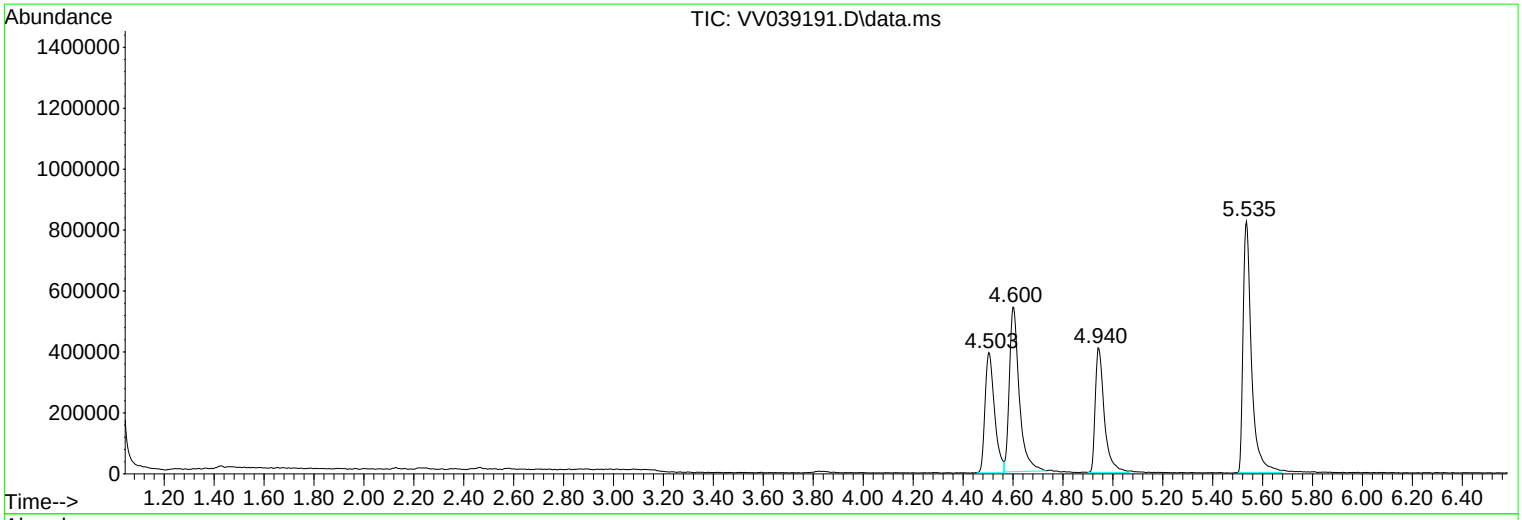
Sample Results: **VV039191.D**

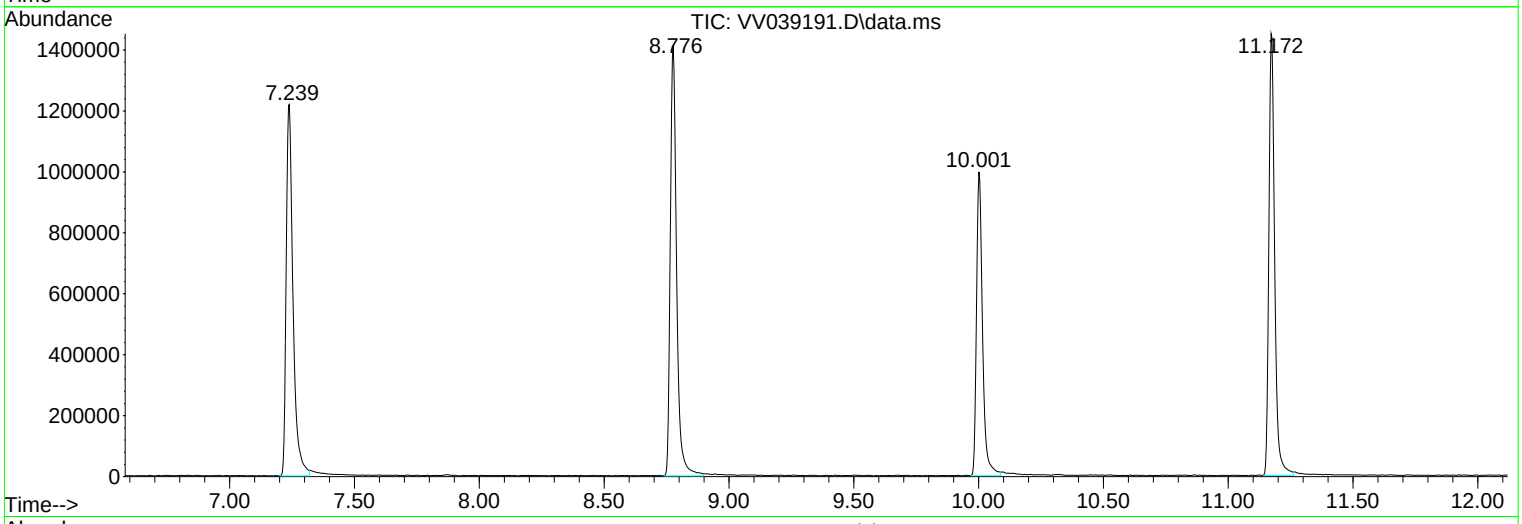
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

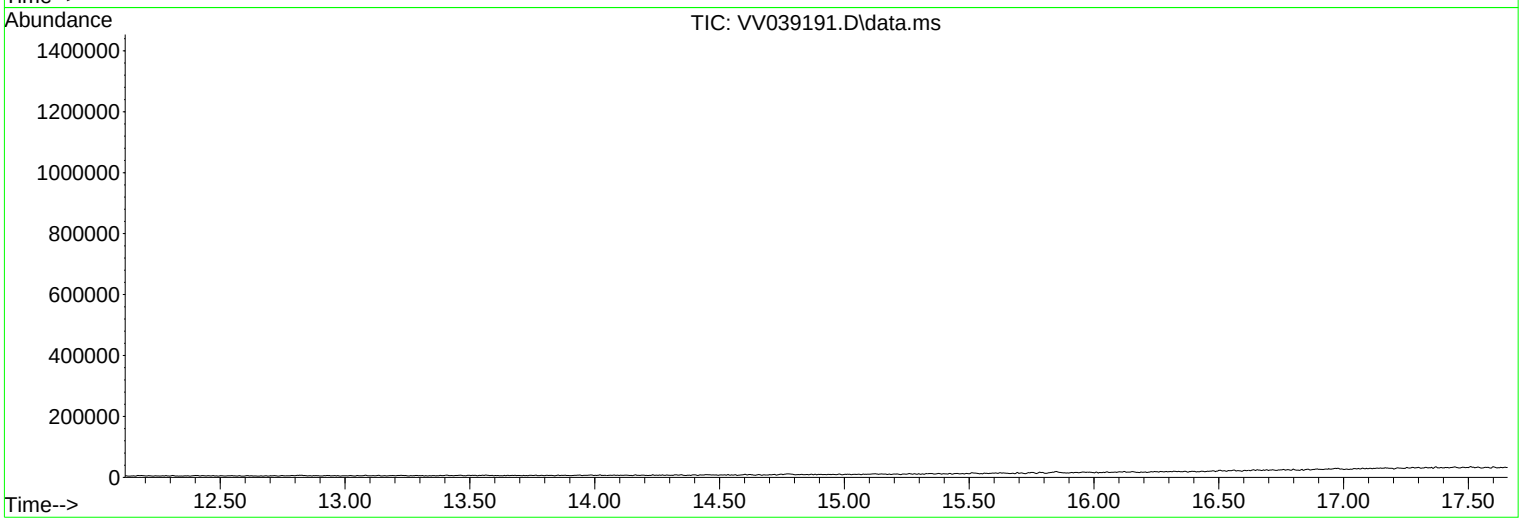
Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TB-01-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG No.: Q3195

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

Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF010 = VV039137.D RRF020 = VV039138.D RRF050 = VV039139.D
RRF100 = VV039140.D RRF005 = VV039142.D RRF001 = VV039143.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.848	0.757	0.740	0.699	0.772	0.934	0.792	10.8
Chloromethane	0.949	0.814	0.770	0.729	0.889	0.946	0.850	10.9
Vinyl Chloride	1.007	0.856	0.836	0.801	0.932	1.026	0.910	10.3
Bromomethane	0.631	0.548	0.508	0.524	0.655		0.573	11.5
Chloroethane	0.662	0.568	0.533	0.500	0.606	0.915	0.631	23.8
Trichlorofluoromethane	1.394	1.253	1.193	1.151	1.365	1.546	1.317	11.2
1,1,2-Trichlorotrifluoroethane	0.839	0.732	0.702	0.686	0.804	0.939	0.784	12.3
1,1-Dichloroethene	0.804	0.721	0.674	0.663	0.789	0.873	0.754	10.9
Acetone	0.537	0.458	0.449	0.414	0.569	0.712	0.523	20.8
Carbon Disulfide	2.453	2.181	2.081	1.986	2.462	2.670	2.306	11.4
Methyl tert-butyl Ether	2.547	2.285	2.233	2.202	2.556	2.591	2.402	7.5
Methyl Acetate	1.146	1.036	0.983	0.973	1.097	1.198	1.072	8.5
Methylene Chloride	0.930	0.848	0.779	0.742	1.113	1.987	1.066	44
trans-1,2-Dichloroethene	0.846	0.755	0.724	0.696	0.835	0.959	0.803	12.1
1,1-Dichloroethane	1.669	1.466	1.388	1.329	1.659	1.942	1.576	14.4
Cyclohexane	1.325	1.222	1.245	1.254	1.407		1.291	5.9
2-Butanone	0.604	0.584	0.586	0.580	0.570	0.554	0.579	2.9
Carbon Tetrachloride	0.742	0.710	0.703	0.675	0.736	0.890	0.743	10.2
cis-1,2-Dichloroethene	0.908	0.842	0.868	0.860	0.832	1.001	0.885	7.1
Bromochloromethane	0.836	0.753	0.679	0.637	0.525	0.743	0.696	15.5
Chloroform	1.752	1.570	1.490	1.433	1.746	1.880	1.645	10.6
1,1,1-Trichloroethane	1.562	1.321	1.298	1.263	1.513	1.590	1.424	10.3
Methylcyclohexane	0.701	0.720	0.823	0.857	0.680	0.622	0.734	12.2
Benzene	2.077	1.978	1.990	1.931	1.963	1.936	1.979	2.7
1,2-Dichloroethane	0.725	0.694	0.666	0.643	0.693	0.740	0.693	5.2
Trichloroethene	0.471	0.456	0.463	0.454	0.460	0.435	0.457	2.6
1,2-Dichloropropane	0.509	0.519	0.502	0.486	0.471	0.465	0.492	4.4
Bromodichloromethane	0.832	0.764	0.753	0.725	0.767	0.829	0.778	5.5
4-Methyl-2-Pentanone	0.715	0.736	0.732	0.714	0.613	0.459	0.661	16.5
Toluene	1.211	1.199	1.229	1.214	1.130	0.901	1.147	10.9

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG No.: Q3195

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

Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF010 = VV039137.D RRF020 = VV039138.D RRF050 = VV039139.D
RRF100 = VV039140.D RRF005 = VV039142.D RRF001 = VV039143.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.701	0.696	0.728	0.753	0.645	0.548	0.678	10.8
cis-1,3-Dichloropropene	0.803	0.777	0.811	0.803	0.704	0.595	0.749	11.4
1,1,2-Trichloroethane	0.534	0.502	0.494	0.480	0.524	0.553	0.514	5.3
2-Hexanone	0.505	0.534	0.546	0.533	0.429	0.231	0.463	26.2
Dibromochloromethane	0.605	0.570	0.567	0.558	0.598	0.620	0.586	4.2
1,2-Dibromoethane	0.556	0.538	0.529	0.514	0.535	0.484	0.526	4.7
Tetrachloroethene	0.435	0.412	0.412	0.407	0.431	0.415	0.419	2.7
Chlorobenzene	1.403	1.368	1.383	1.358	1.417	1.428	1.393	2
Ethyl Benzene	2.028	2.143	2.382	2.418	1.953	1.725	2.108	12.5
m/p-Xylenes	0.820	0.882	0.949	0.938	0.713	0.580	0.814	17.7
o-Xylene	0.703	0.742	0.846	0.880	0.635	0.518	0.720	18.7
Styrene	1.239	1.381	1.553	1.537	1.038	0.828	1.263	22.8
Bromoform	0.396	0.384	0.396	0.400	0.385	0.397	0.393	1.7
Isopropylbenzene	3.564	3.638	3.939	4.096	3.296	3.226	3.627	9.5
1,1,2,2-Tetrachloroethane	1.600	1.461	1.425	1.389	1.684	1.975	1.589	13.8
1,3-Dichlorobenzene	1.931	1.836	1.857	1.882	1.943	1.975	1.904	2.8
1,4-Dichlorobenzene	2.070	1.951	1.934	1.919	2.139	2.522	2.089	11
1,2-Dichlorobenzene	1.751	1.652	1.738	1.802	1.797	1.935	1.779	5.3
1,2-Dibromo-3-Chloropropane	0.299	0.283	0.285	0.302	0.333	0.476	0.330	22.4
1,2,4-Trichlorobenzene	0.928	0.963	1.076	1.189	0.935	1.028	1.020	9.9
1,2,3-Trichlorobenzene	0.974	0.973	1.107	1.191	0.901	1.113	1.043	10.6
1,2-Dichloroethane-d4	0.773	0.663	0.646	0.618	0.919		0.724	17.1
Dibromofluoromethane	0.435	0.382	0.377	0.360	0.454		0.402	10.1
Toluene-d8	1.166	1.092	1.136	1.097	1.411		1.181	11.2
4-Bromofluorobenzene	0.481	0.464	0.507	0.501	0.477		0.486	3.6

* 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_V

Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
Method File : 82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025
Response Via : Initial Calibration

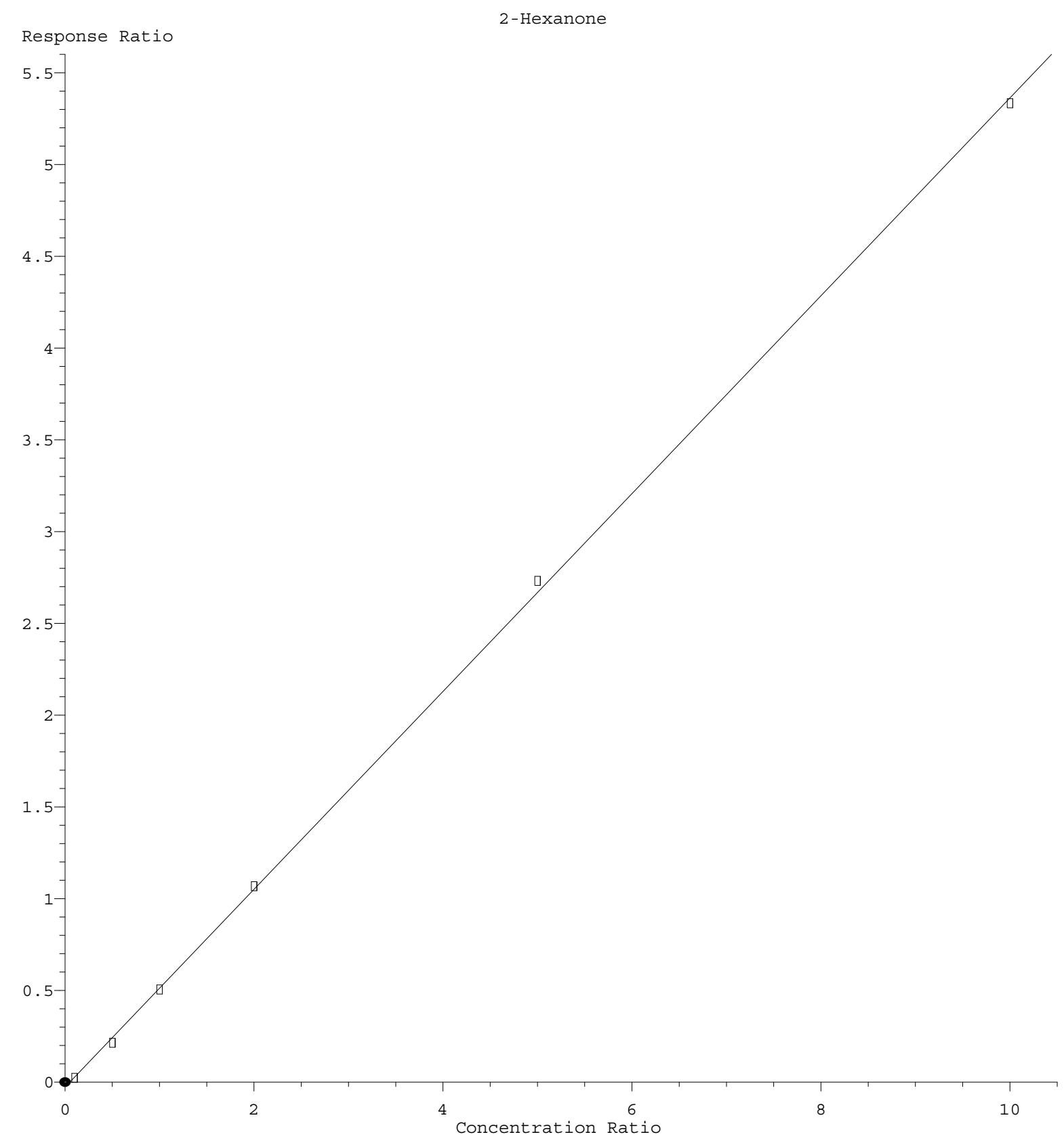
Calibration Files
1 =VV039143.D 5 =VV039142.D 10 =VV039137.D 20 =VV039138.D 50 =VV039139.D 100 =VV039140.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.934	0.772	0.848	0.757	0.740	0.699	0.791	10.78
3)	P	Chloromethane	0.946	0.889	0.949	0.814	0.770	0.729	0.850	10.90
4)	C	Vinyl Chloride	1.026	0.932	1.007	0.856	0.836	0.801	0.910	10.27#
5)	T	Bromomethane		0.655	0.631	0.548	0.508	0.524	0.573	11.50
6)	T	Chloroethane	0.915	0.606	0.662	0.568	0.533	0.500	0.631	23.83
7)	T	Trichlorofluor...	1.546	1.365	1.394	1.253	1.193	1.151	1.317	11.15
8)	T	Diethyl Ether	0.572	0.513	0.505	0.461	0.447	0.435	0.489	10.50
9)	T	1,1,2-Trichlor...	0.939	0.804	0.839	0.732	0.702	0.686	0.784	12.28
10)	T	Methyl Iodide		0.638	0.772	0.742	0.786	0.793	0.746	8.50
11)	T	Tert butyl alc...		0.166	0.169	0.157	0.137	0.136	0.153	10.26
12)	CM	1,1-Dichloroet...	0.873	0.789	0.804	0.721	0.674	0.663	0.754	10.87#
13)	T	Acrolein		0.025	0.027	0.027	0.026	0.027	0.027	4.01
14)	T	Allyl chloride	1.523	1.434	1.388	1.283	1.243	1.208	1.347	9.06
15)	T	Acrylonitrile	0.587	0.522	0.507	0.462	0.436	0.427	0.490	12.38
16)	T	Acetone	0.712	0.569	0.537	0.458	0.449	0.414	0.523	20.84
17)	T	Carbon Disulfide	2.670	2.462	2.453	2.181	2.081	1.986	2.306	11.43
18)	T	Methyl Acetate	1.198	1.097	1.146	1.036	0.983	0.973	1.072	8.46
19)	T	Methyl tert-bu...	2.591	2.556	2.547	2.285	2.233	2.202	2.402	7.50
20)	T	Methylene Chlo...	1.987	1.113	0.930	0.848	0.779	0.742	1.066	44.05
21)	T	trans-1,2-Dich...	0.959	0.835	0.846	0.755	0.724	0.696	0.803	12.11
22)	T	Diisopropyl ether	2.659	2.560	2.757	2.530	2.520	2.433	2.576	4.44
23)	T	Vinyl Acetate	2.243	2.313	2.393	2.241	2.204	2.128	2.254	4.04
24)	P	1,1-Dichloroet...	1.942	1.659	1.669	1.466	1.388	1.329	1.576	14.42
25)	T	2-Butanone	0.554	0.570	0.604	0.584	0.586	0.580	0.579	2.90
26)	T	2,2-Dichloropr...	1.906	1.393	1.364	1.275	1.239	1.204	1.397	18.57
27)	T	cis-1,2-Dichlo...	1.001	0.832	0.908	0.842	0.868	0.860	0.885	7.06
28)	T	Bromochloromet...	0.743	0.525	0.836	0.753	0.679	0.637	0.696	15.49
29)	T	Tetrahydrofuran	0.335	0.350	0.376	0.372	0.369	0.374	0.363	4.57
30)	C	Chloroform	1.880	1.746	1.752	1.570	1.490	1.433	1.645	10.60#
31)	T	Cyclohexane		1.407	1.325	1.222	1.245	1.254	1.291	5.85
32)	T	1,1,1-Trichlor...	1.590	1.513	1.562	1.321	1.298	1.263	1.424	10.26
33)	S	1,2-Dichloroet...		0.919	0.773	0.663	0.646	0.618	0.724	17.13
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.454	0.435	0.382	0.377	0.360	0.402	10.10
36)	T	1,1-Dichloropr...	0.650	0.536	0.624	0.604	0.620	0.612	0.608	6.33
37)	T	Ethyl Acetate	0.825	0.722	0.715	0.740	0.714	0.710	0.737	5.96
38)	T	Carbon Tetrach...	0.890	0.736	0.742	0.710	0.703	0.675	0.743	10.25
39)	T	Methylcyclohexane	0.622	0.680	0.701	0.720	0.823	0.857	0.734	12.15
40)	TM	Benzene	1.936	1.963	2.077	1.978	1.990	1.931	1.979	2.69
41)	T	Methacrylonitrile	0.185	0.215	0.273	0.292	0.330	0.342	0.273	22.92
42)	TM	1,2-Dichloroet...	0.740	0.693	0.725	0.694	0.666	0.643	0.693	5.20
43)	T	Isopropyl Acetate	0.869	0.933	1.032	1.029	1.069	1.100	1.005	8.71
44)	TM	Trichloroethene	0.435	0.460	0.471	0.456	0.463	0.454	0.457	2.64
45)	C	1,2-Dichloropr...	0.465	0.471	0.509	0.519	0.502	0.486	0.492	4.40#
46)	T	Dibromomethane	0.396	0.381	0.392	0.367	0.368	0.354	0.376	4.40
47)	T	Bromodichlorom...	0.829	0.767	0.832	0.764	0.753	0.725	0.778	5.54
48)	T	Methyl methacr...	0.491	0.356	0.409	0.449	0.504	0.526	0.456	14.15
49)	T	1,4-Dioxane	0.009	0.005	0.007	0.007	0.007	0.008	0.007	17.72
50)	S	Toluene-d8		1.411	1.166	1.092	1.136	1.097	1.181	11.21
51)	T	4-Methyl-2-Pen...	0.459	0.613	0.715	0.736	0.732	0.714	0.661	16.48
52)	CM	Toluene	0.901	1.130	1.211	1.199	1.229	1.214	1.147	10.93#
53)	T	t-1,3-Dichloro...	0.548	0.645	0.701	0.696	0.728	0.753	0.678	10.83
54)	T	cis-1,3-Dichlo...	0.595	0.704	0.803	0.777	0.811	0.803	0.749	11.37
55)	T	1,1,2-Trichlor...	0.553	0.524	0.534	0.502	0.494	0.480	0.514	5.31
56)	T	Ethyl methacry...	0.507	0.510	0.569	0.603	0.716	0.761	0.611	17.43

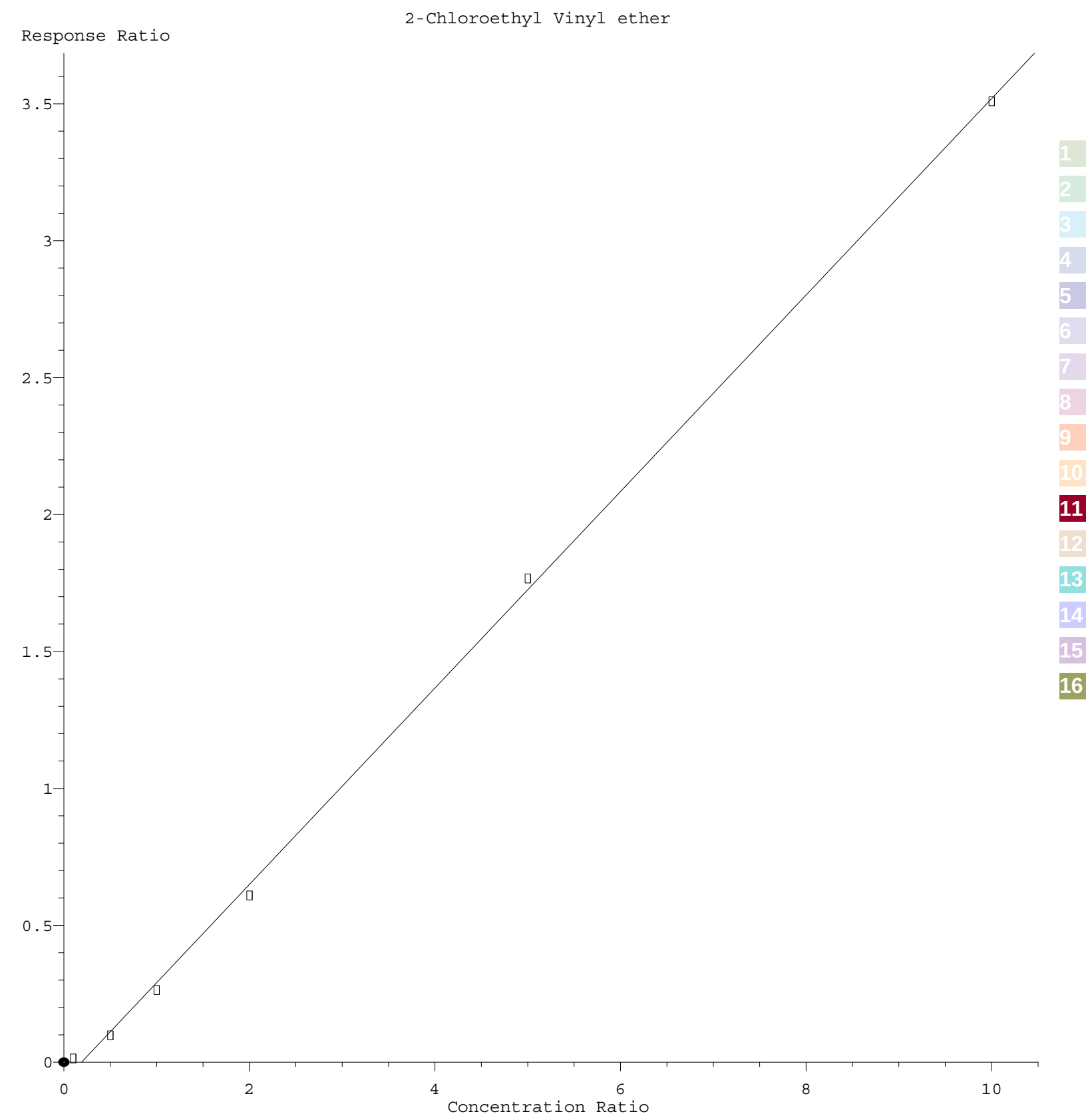
Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
Method File : 82V092225W.M

57)	T	1,3-Dichloropr...	0.797	0.764	0.861	0.827	0.820	0.802	0.812	4.02
58)	T	2-Chloroethyl ...	0.136	0.196	0.264	0.304	0.353	0.351	0.267	32.62
59)	T	2-Hexanone	0.231	0.429	0.505	0.534	0.546	0.533	0.463	26.18
60)	T	Dibromochlorom...	0.620	0.598	0.605	0.570	0.567	0.558	0.586	4.20
61)	T	1,2-Dibromoethane	0.484	0.535	0.556	0.538	0.529	0.514	0.526	4.70
62)	S	4-Bromofluorob...		0.477	0.481	0.464	0.507	0.501	0.486	3.62
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.415	0.431	0.435	0.412	0.412	0.407	0.419	2.74
65)	PM	Chlorobenzene	1.428	1.417	1.403	1.368	1.383	1.358	1.393	1.99
66)	T	1,1,1,2-Tetrac...	0.543	0.504	0.520	0.488	0.488	0.477	0.503	4.84
67)	C	Ethyl Benzene	1.725	1.953	2.028	2.143	2.382	2.418	2.108	12.53#
68)	T	m/p-Xylenes	0.580	0.713	0.820	0.882	0.949	0.938	0.814	17.68
69)	T	o-Xylene	0.518	0.635	0.703	0.742	0.846	0.880	0.720	18.67
70)	T	Styrene	0.828	1.038	1.239	1.381	1.553	1.537	1.263	22.78
71)	P	Bromoform	0.397	0.385	0.396	0.384	0.396	0.400	0.393	1.68
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.226	3.296	3.564	3.638	3.939	4.096	3.627	9.49
74)	T	N-amyl acetate	1.031	1.279	1.425	1.506	1.673	1.764	1.447	18.47
75)	P	1,1,2,2-Tetrac...	1.975	1.684	1.600	1.461	1.425	1.389	1.589	13.83
76)	T	1,2,3-Trichlor...	1.375	1.201	1.136	1.048	1.049	1.023	1.138	11.73
77)	T	Bromobenzene	0.978	0.927	0.948	0.919	0.925	0.949	0.941	2.34
78)	T	n-propylbenzene	3.873	3.967	4.330	4.442	4.899	4.986	4.416	10.44
79)	T	2-Chlorotoluene	2.114	2.585	2.752	2.688	2.833	2.883	2.643	10.59
80)	T	1,3,5-Trimethy...	2.462	2.697	2.924	3.141	3.387	3.475	3.014	13.12
81)	T	trans-1,4-Dich...		0.427	0.478	0.451	0.495	0.521	0.474	7.77
82)	T	4-Chlorotoluene	2.381	2.877	3.160	3.216	3.338	3.413	3.064	12.48
83)	T	tert-Butylbenzene	2.875	2.757	2.886	2.881	3.222	3.413	3.006	8.43
84)	T	1,2,4-Trimethy...	2.332	2.542	2.767	3.100	3.378	3.440	2.926	15.47
85)	T	sec-Butylbenzene	3.605	3.608	3.823	3.969	4.364	4.550	3.987	9.88
86)	T	p-Isopropyltol...	2.874	2.994	3.237	3.351	3.682	3.772	3.318	10.85
87)	T	1,3-Dichlorobe...	1.975	1.943	1.931	1.836	1.857	1.882	1.904	2.83
88)	T	1,4-Dichlorobe...	2.522	2.139	2.070	1.951	1.934	1.919	2.089	10.97
89)	T	n-Butylbenzene	2.646	2.816	3.034	3.141	3.613	3.763	3.169	13.88
90)	T	Hexachloroethane	1.044	0.841	0.808	0.740	0.728	0.742	0.817	14.63
91)	T	1,2-Dichlorobe...	1.935	1.797	1.751	1.652	1.738	1.802	1.779	5.26
92)	T	1,2-Dibromo-3-...	0.476	0.333	0.299	0.283	0.285	0.302	0.330	22.39
93)	T	1,2,4-Trichlor...	1.028	0.935	0.928	0.963	1.076	1.189	1.020	9.87
94)	T	Hexachlorobuta...	0.683	0.530	0.512	0.474	0.480	0.501	0.530	14.65
95)	T	Naphthalene	3.054	2.665	2.888	3.114	3.814	4.244	3.296	18.32
96)	T	1,2,3-Trichlor...	1.113	0.901	0.974	0.973	1.107	1.191	1.043	10.58

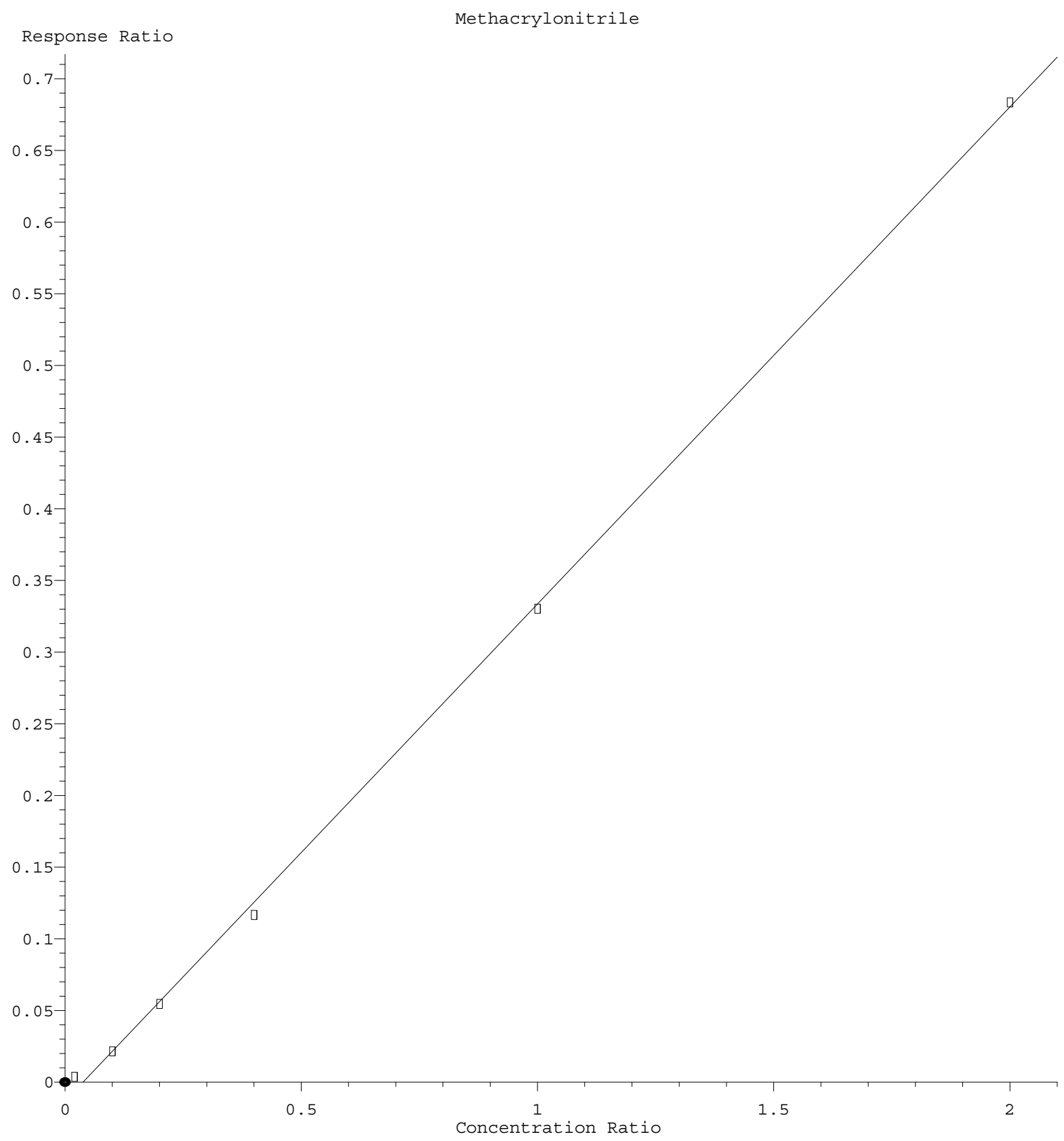
(#) = Out of Range



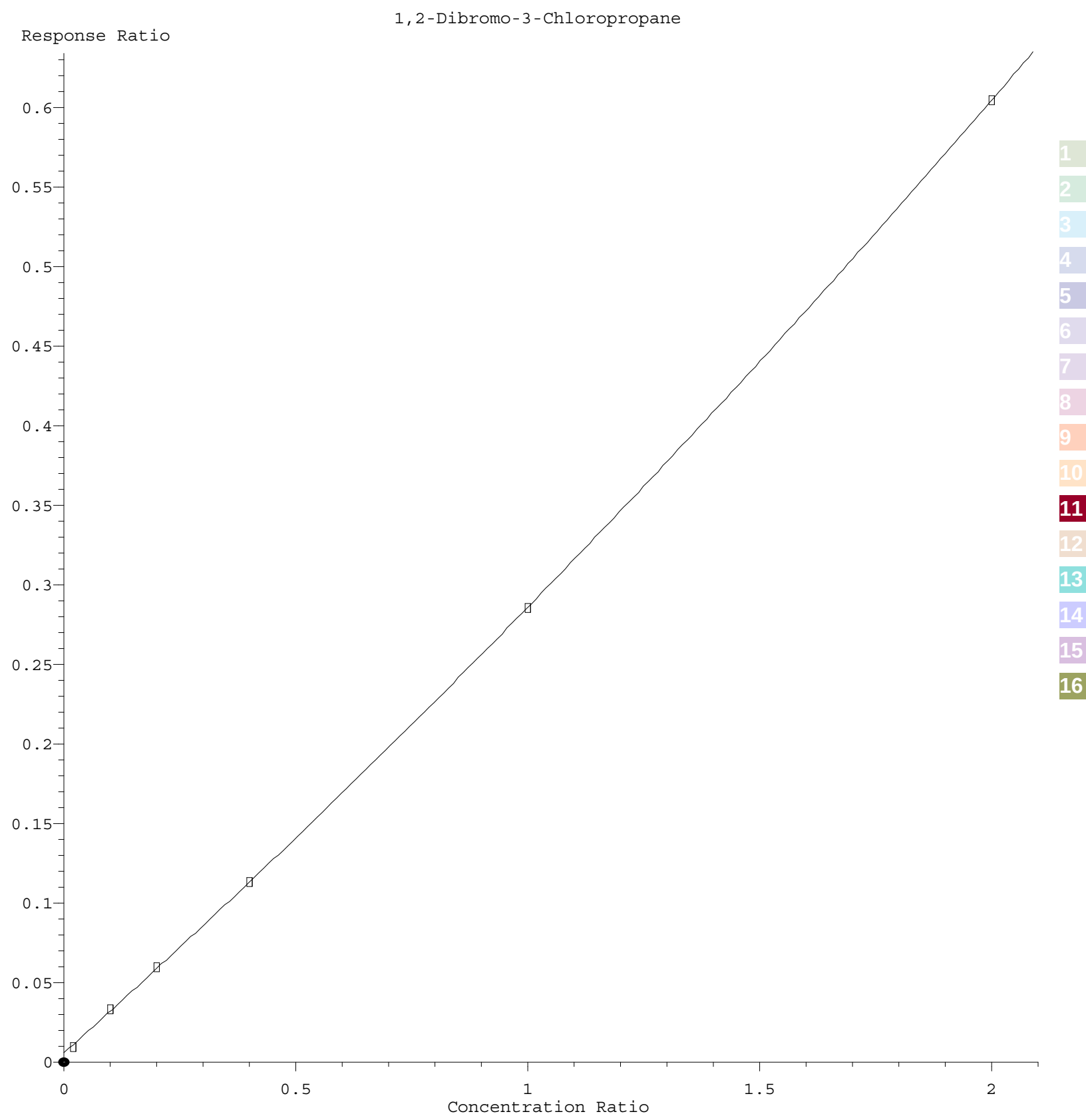
Response = 5.390e-001 * Amt - 2.507e-002
Coef of Det (r^2) = 0.999719 Curve Fit: Linear
Method: C:\Chrom\Archive\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



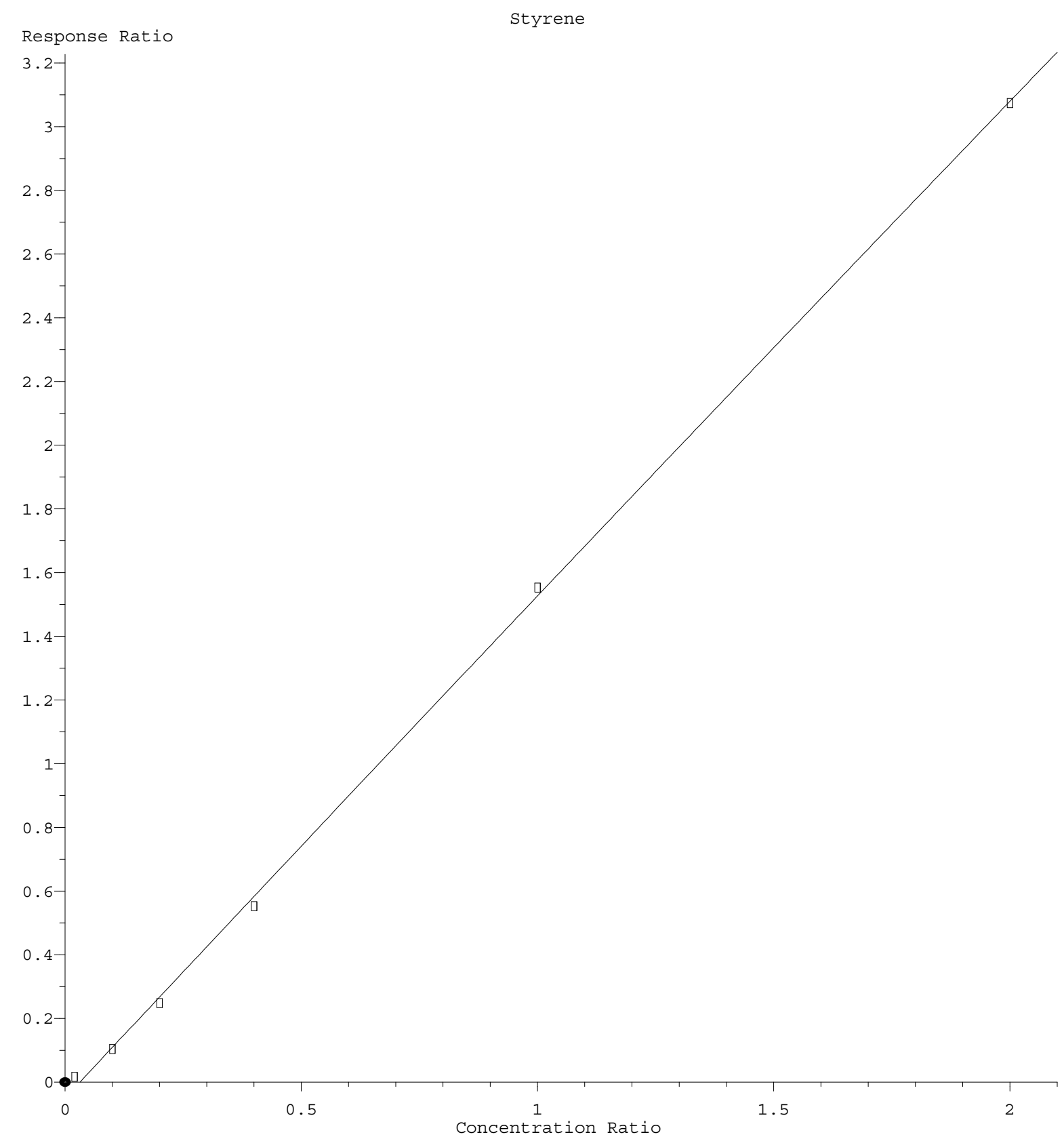
Response = 3.588e-001 * Amt - 6.905e-002
Coef of Det (r^2) = 0.999314 Curve Fit: Linear
Method: C:\Chrom\Archive\HPCHEM1\MSVOA_V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



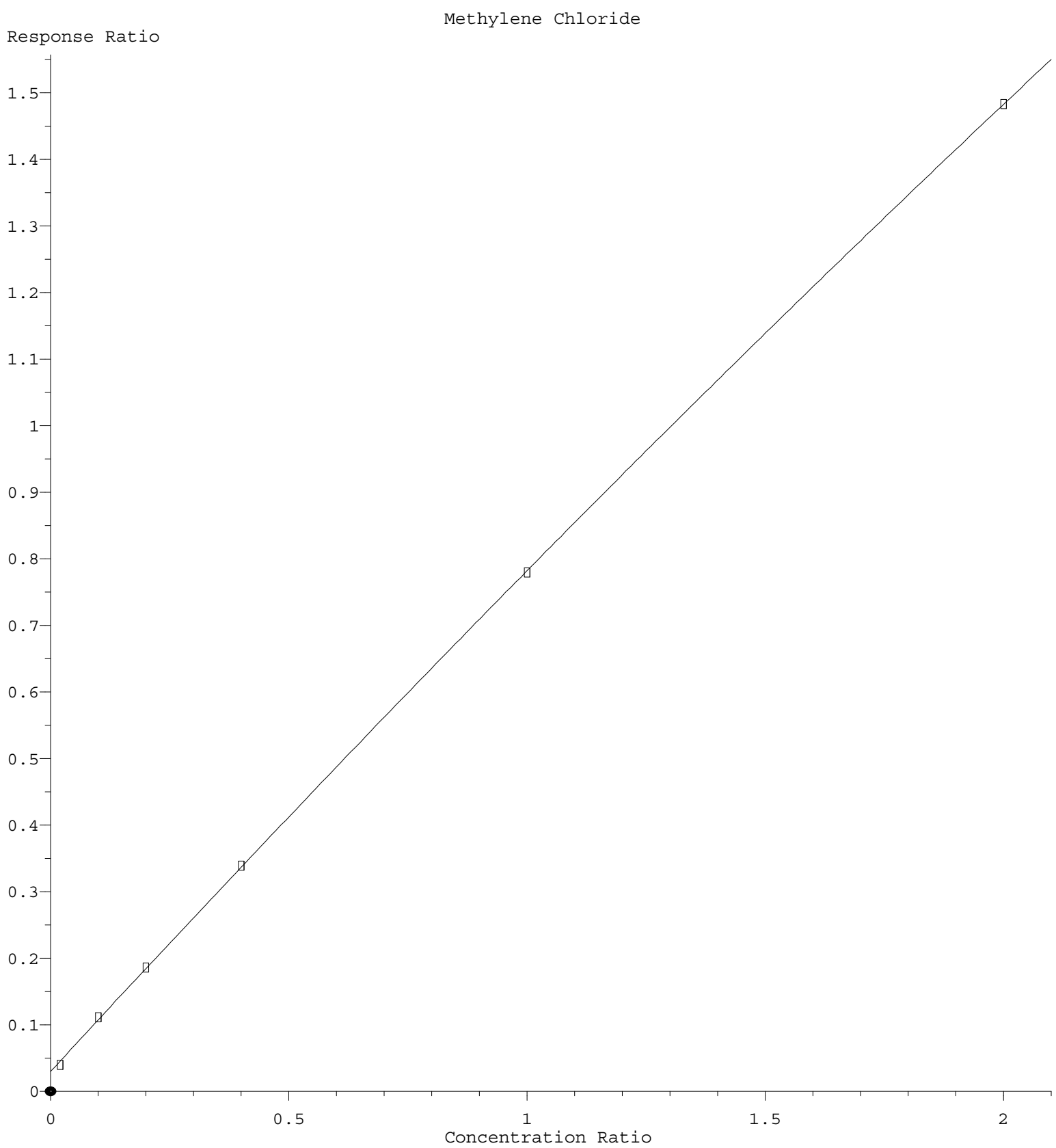
Response = 3.467e-001 * Amt - 1.325e-002
Coef of Det (r^2) = 0.999425 Curve Fit: Linear
Method: C:\msdchem\1\data\rv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



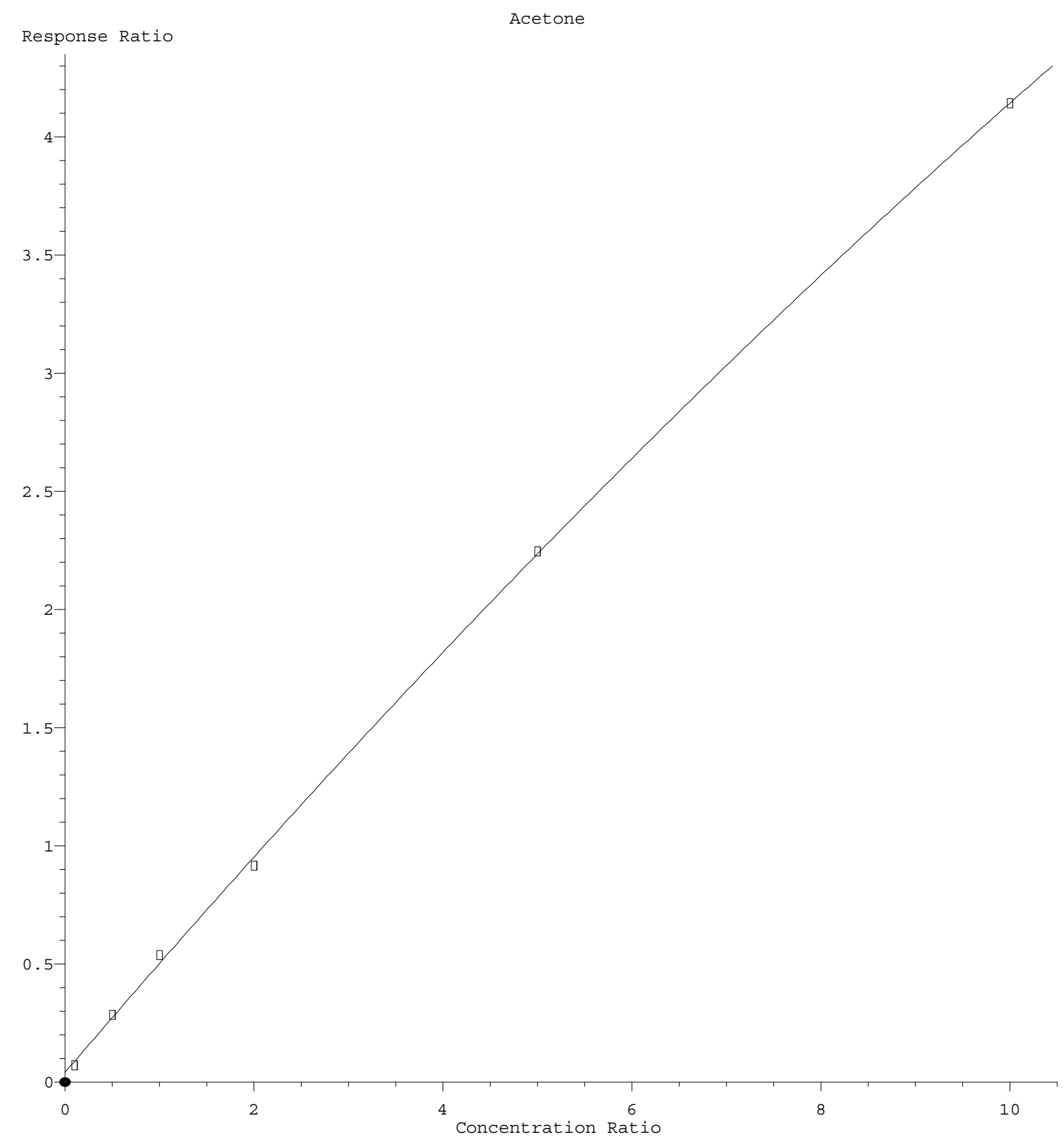
R = 1.931e-002 A*A + 2.606e-001 A + 5.917e-003
Coef of Det (r^2) = 0.999981 Curve Fit: Quadratic
Method: C:\Chrom\Archive\HPCHEM1\MSVOA_V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



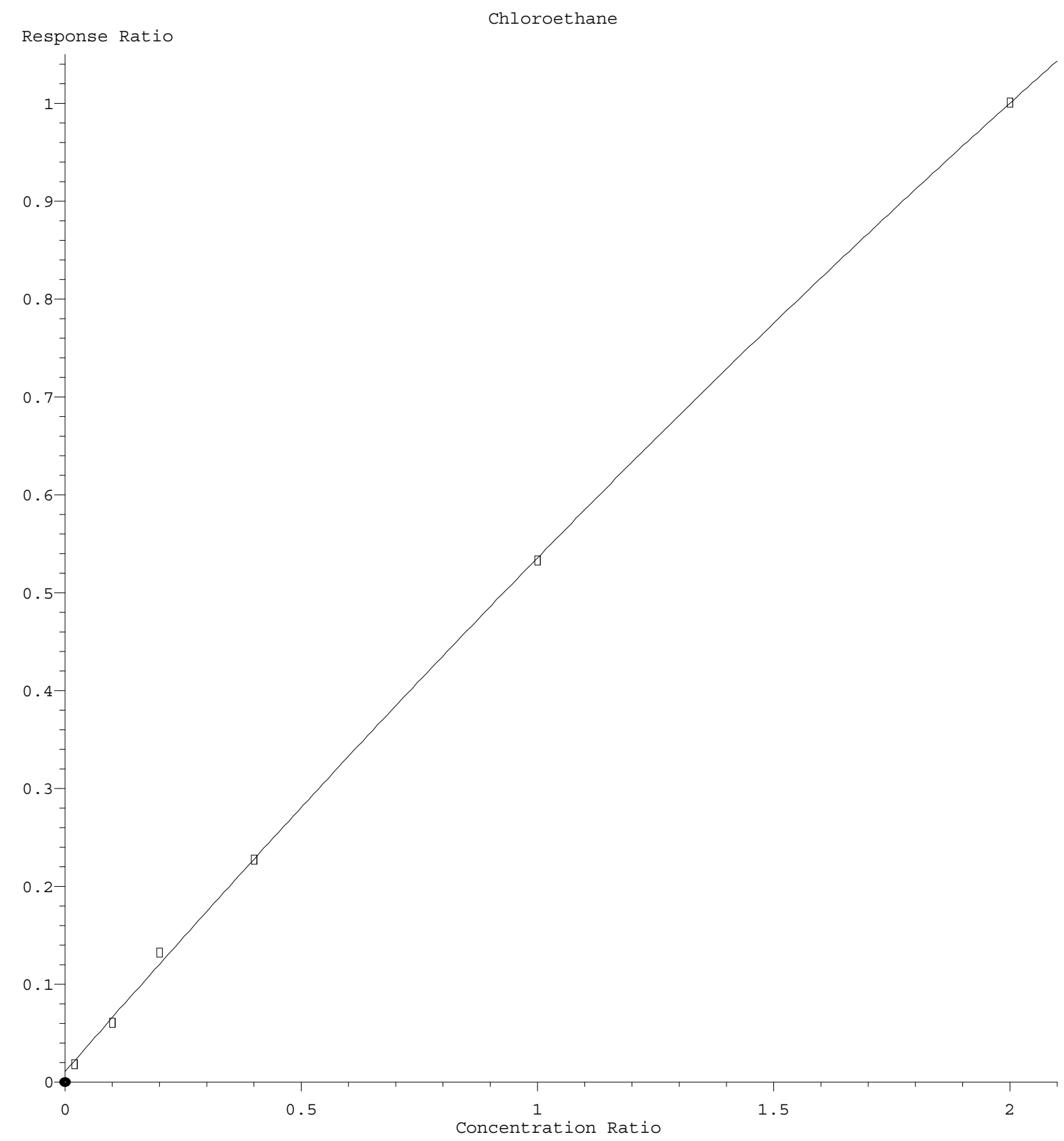
R = -1.124e-002 A*A + 1.587e+000 A - 4.955e-002
Coef of Det (r^2) = 0.999540 Curve Fit: Quadratic
Method: C:\Chemserv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



R = -2.570e-002 A*A + 7.777e-001 A + 2.991e-002
Coef of Det (r^2) = 0.999960 Curve Fit: Quadratic
Method: \\Nt-fs01\chromdata\GCMS_Archive\HPCHEM1\MSVOA_V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



R = -5.738e-003 A*A + 4.676e-001 A + 4.104e-002
Coef of Det (r^2) = 0.999745 Curve Fit: Quadratic
Method: C:\msdchem\1\DATA\qa-rv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



R = -3.006e-002 A*A + 5.547e-001 A + 1.084e-002
Coef of Det (r^2) = 0.999734 Curve Fit: Quadratic
Method: C:\Chem\1\Methods\rv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.597	168	501722	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	837272	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	824583	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	463438	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	77610	10.688	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	21.380%#		
35) Dibromofluoromethane	4.503	113	72914	10.833	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	21.660%#		
50) Toluene-d8	7.240	98	195300	9.879	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	19.760%#		
62) 4-Bromofluorobenzene	10.005	95	80587	9.902	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	19.800%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	85113	10.716	ug/l	99
3) Chloromethane	1.230	50	95215	11.167	ug/l	95
4) Vinyl Chloride	1.298	62	101023	11.068	ug/l	99
5) Bromomethane	1.500	94	63359	11.011	ug/l	98
6) Chloroethane	1.561	64	66412	11.087	ug/l	98
7) Trichlorofluoromethane	1.729	101	139927	10.588	ug/l	98
8) Diethyl Ether	1.918	74	50669	10.328	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	84221	10.711	ug/l	99
10) Methyl Iodide	2.198	142	77448	10.343	ug/l	98
11) Tert butyl alcohol	2.568	59	84609	55.130	ug/l	99
12) 1,1-Dichloroethene	2.082	96	80704	10.669	ug/l	97
13) Acrolein	2.015	56	13557	50.908	ug/l #	80
14) Allyl chloride	2.359	41	139249	10.305	ug/l	98
15) Acrylonitrile	2.674	53	254235	51.676	ug/l	99
16) Acetone	2.121	43	269573	53.773	ug/l	99
17) Carbon Disulfide	2.253	76	246125	10.639	ug/l	99
18) Methyl Acetate	2.381	43	115005	10.689	ug/l	97
19) Methyl tert-butyl Ether	2.712	73	255535	10.601	ug/l	99
20) Methylene Chloride	2.455	84	93350	10.106	ug/l	99
21) trans-1,2-Dichloroethene	2.703	96	84891	10.541	ug/l	95
22) Diisopropyl ether	3.214	45	276604	10.699	ug/l #	68
23) Vinyl Acetate	3.191	43	1200618	53.087	ug/l	100
24) 1,1-Dichloroethane	3.118	63	167496	10.594	ug/l	100
25) 2-Butanone	3.873	43	303016	53.015	ug/l	100
26) 2,2-Dichloropropane	3.809	77	136919	9.806	ug/l	100
27) cis-1,2-Dichloroethene	3.822	96	91069	10.254	ug/l	99
28) Bromochloromethane	4.146	49	83889	12.019	ug/l	98
29) Tetrahydrofuran	4.240	42	188818	51.879	ug/l	96
30) Chloroform	4.278	83	175847	10.652	ug/l	97
31) Cyclohexane	4.584	56	132996	10.269	ug/l	96
32) 1,1,1-Trichloroethane	4.513	97	156733	10.966	ug/l	96
36) 1,1-Dichloropropene	4.744	75	104420	10.187	ug/l	99
37) Ethyl Acetate	3.982	43	119710	9.520	ug/l #	91
38) Carbon Tetrachloride	4.732	117	124321	10.069	ug/l	98
39) Methylcyclohexane	6.043	83	117354	9.549	ug/l	94
40) Benzene	5.008	78	347728	10.493	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.169	41	45674	9.764	ug/l		90
42) 1,2-Dichloroethane	5.043	62	121437	10.458	ug/l		100
43) Isopropyl Acetate	5.195	43	172880	9.980	ug/l		97
44) Trichloroethene	5.834	130	78943	10.324	ug/l		93
45) 1,2-Dichloropropane	6.092	63	85295	10.355	ug/l		99
46) Dibromomethane	6.230	93	65717	10.424	ug/l		98
47) Bromodichloromethane	6.426	83	139261	10.685	ug/l		97
48) Methyl methacrylate	6.304	41	68465	8.639	ug/l		97
49) 1,4-Dioxane	6.297	88	23699	190.260	ug/l		99
51) 4-Methyl-2-Pentanone	7.150	43	598702	54.051	ug/l		97
52) Toluene	7.310	92	202741	10.552	ug/l		100
53) t-1,3-Dichloropropene	7.580	75	117314	10.329	ug/l		97
54) cis-1,3-Dichloropropene	6.950	75	134529	10.729	ug/l		98
55) 1,1,2-Trichloroethane	7.764	97	89390	10.376	ug/l		98
56) Ethyl methacrylate	7.719	69	95279	9.313	ug/l		99
57) 1,3-Dichloropropane	7.934	76	144218	10.607	ug/l		98
58) 2-Chloroethyl Vinyl ether	6.815	63	220693	46.148	ug/l		99
59) 2-Hexanone	8.066	43	422703	49.020	ug/l		93
60) Dibromochloromethane	8.169	129	101236	10.313	ug/l		97
61) 1,2-Dibromoethane	8.275	107	93182	10.576	ug/l		100
64) Tetrachloroethene	7.899	164	71811	10.397	ug/l		98
65) Chlorobenzene	8.805	112	231329	10.072	ug/l		99
66) 1,1,1,2-Tetrachloroethane	8.899	131	85678	10.324	ug/l		99
67) Ethyl Benzene	8.937	91	334394	9.618	ug/l		99
68) m/p-Xylenes	9.063	106	270452	20.155	ug/l		99
69) o-Xylene	9.468	106	115922	9.756	ug/l		96
70) Styrene	9.487	104	204368	9.382	ug/l		100
71) Bromoform	9.657	173	65302	10.074	ug/l	#	98
73) Isopropylbenzene	9.857	105	330305	9.827	ug/l		99
74) N-amyl acetate	9.725	43	132108	9.853	ug/l		96
75) 1,1,2,2-Tetrachloroethane	10.165	83	148267	10.067	ug/l		99
76) 1,2,3-Trichloropropane	10.198	75	105275	9.977	ug/l		99
77) Bromobenzene	10.143	156	87828	10.071	ug/l		96
78) n-propylbenzene	10.278	91	401316	9.804	ug/l		100
79) 2-Chlorotoluene	10.349	91	255053	10.413	ug/l		99
80) 1,3,5-Trimethylbenzene	10.464	105	270977	9.699	ug/l		98
81) trans-1,4-Dichloro-2-b...	9.931	75	44314	10.082	ug/l		97
82) 4-Chlorotoluene	10.464	91	292863	10.312	ug/l		100
83) tert-Butylbenzene	10.789	119	267528	9.603	ug/l		98
84) 1,2,4-Trimethylbenzene	10.841	105	256505	9.457	ug/l		99
85) sec-Butylbenzene	11.011	105	354312	9.588	ug/l		100
86) p-Isopropyltoluene	11.169	119	300032	9.755	ug/l		99
87) 1,3-Dichlorobenzene	11.108	146	178990	10.141	ug/l		98
88) 1,4-Dichlorobenzene	11.198	146	191843	9.835	ug/l		97
89) n-Butylbenzene	11.580	91	281258	9.575	ug/l		97
90) Hexachloroethane	11.821	117	74910	9.891	ug/l		96
91) 1,2-Dichlorobenzene	11.567	146	162271	9.841	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.355	75	27674	10.167	ug/l		98
93) 1,2,4-Trichlorobenzene	13.188	180	85982	9.096	ug/l		98
94) Hexachlorobutadiene	13.368	225	47413	9.653	ug/l		97
95) Naphthalene	13.426	128	267645	8.803	ug/l		99
96) 1,2,3-Trichlorobenzene	13.667	180	90238	9.334	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

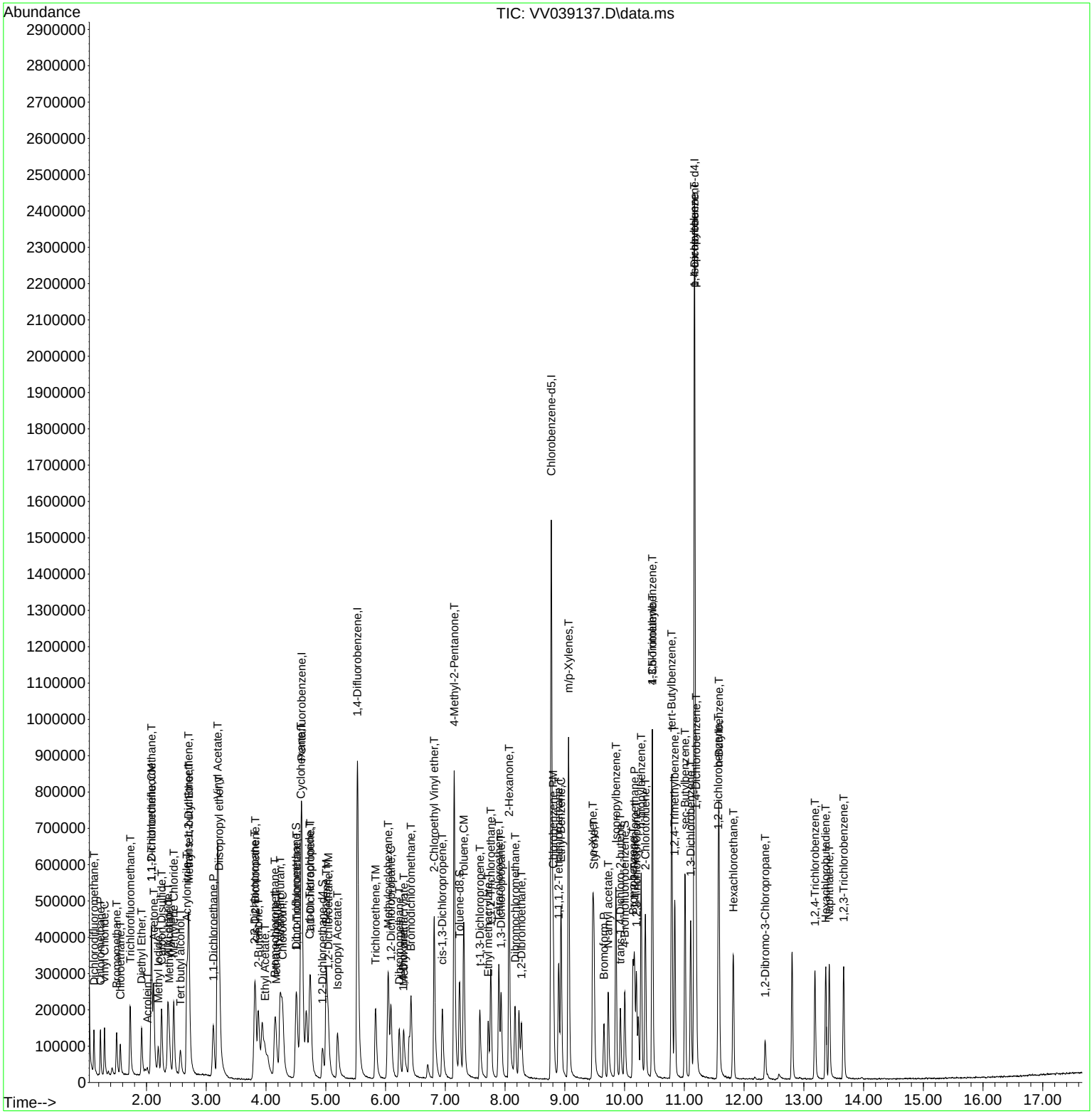
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

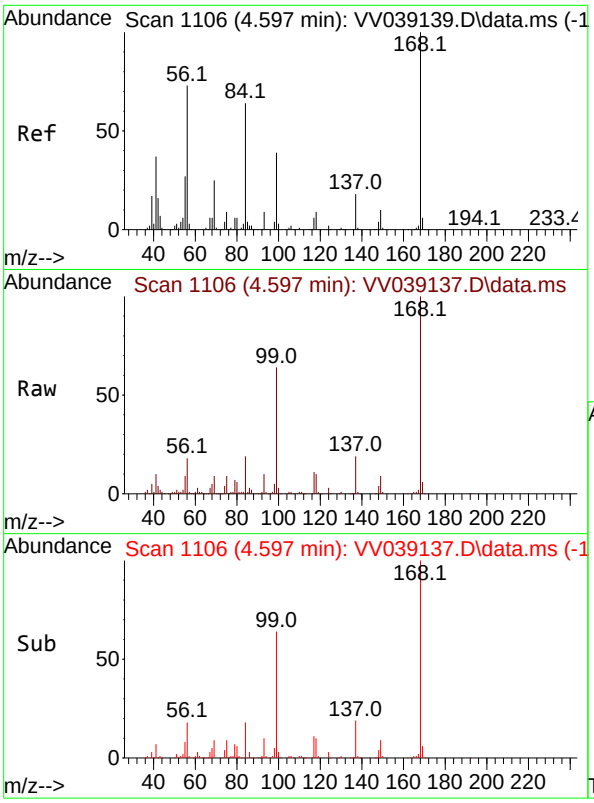
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



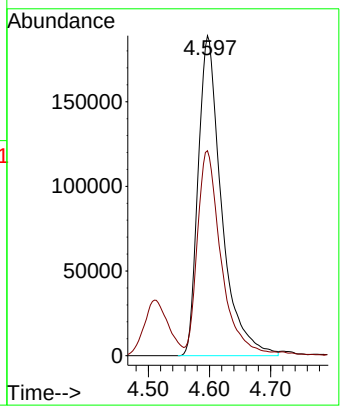


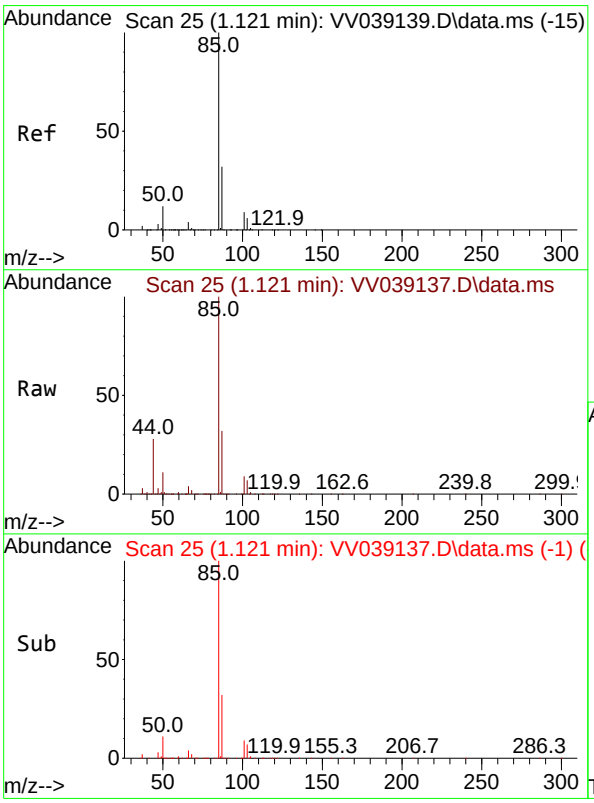
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 501722

Ion	Ratio	Lower	Upper
168	100		
99	63.0	49.6	74.4

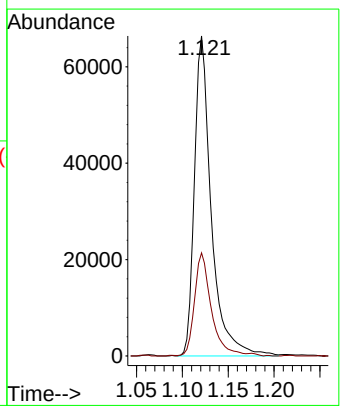


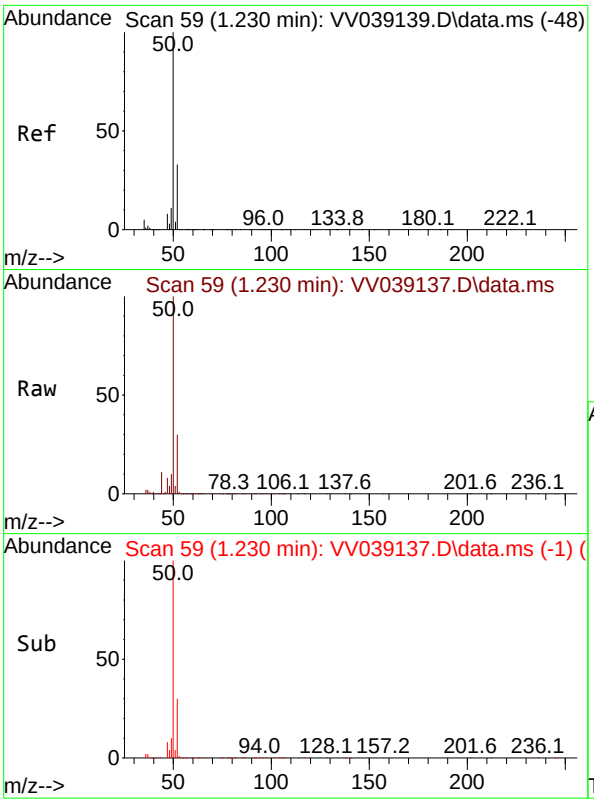


#2
Dichlorodifluoromethane
Concen: 10.716 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 85 Resp: 85113

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.0	47.9



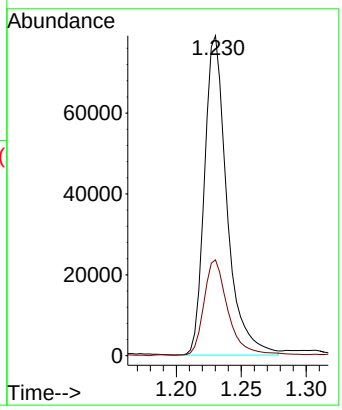


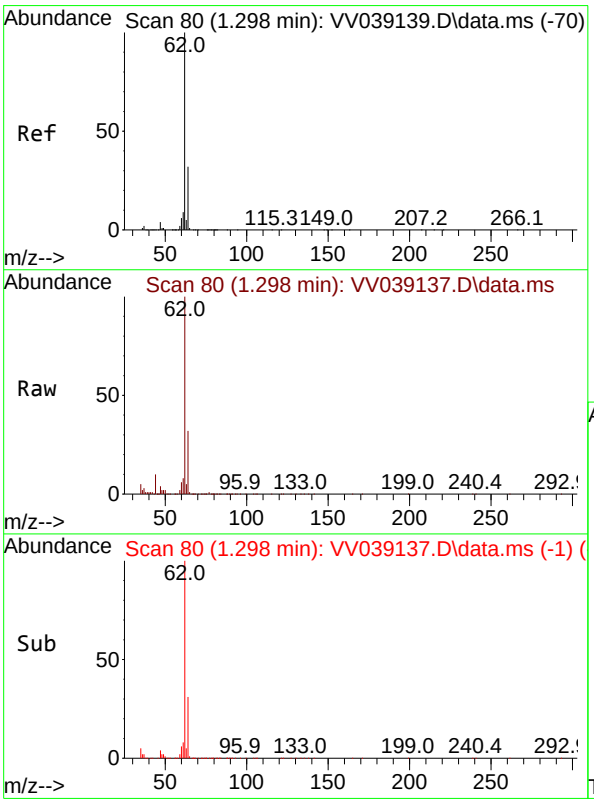
#3
Chloromethane
Concen: 11.167 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 95215

Ion	Ratio	Lower	Upper
50	100		
52	29.8	26.0	39.0

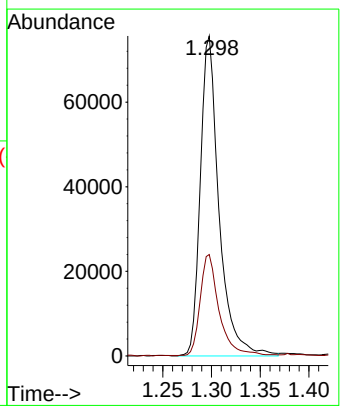


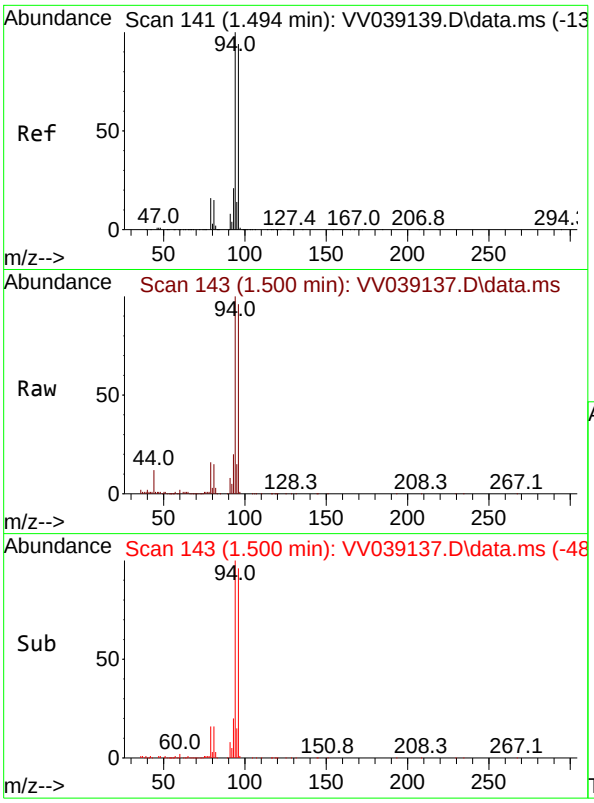


#4
Vinyl Chloride
Concen: 11.068 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 62 Resp: 101023

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.6	38.4



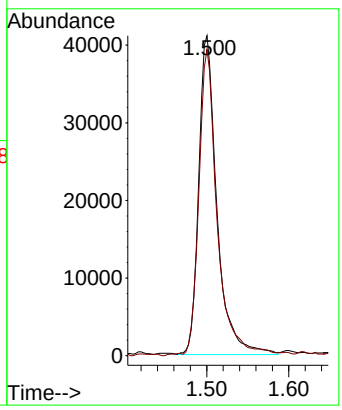


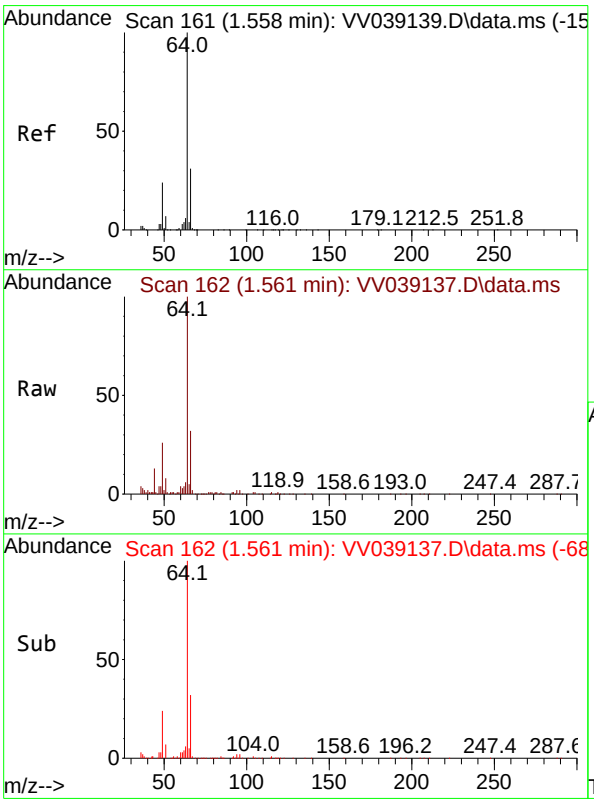
#5
Bromomethane
Concen: 11.011 ug/l
RT: 1.500 min Scan# 14
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 63359

Ion	Ratio	Lower	Upper
94	100		
96	95.4	74.9	112.3

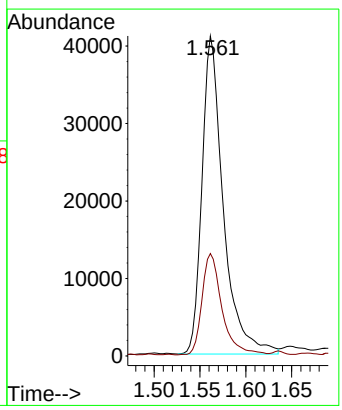


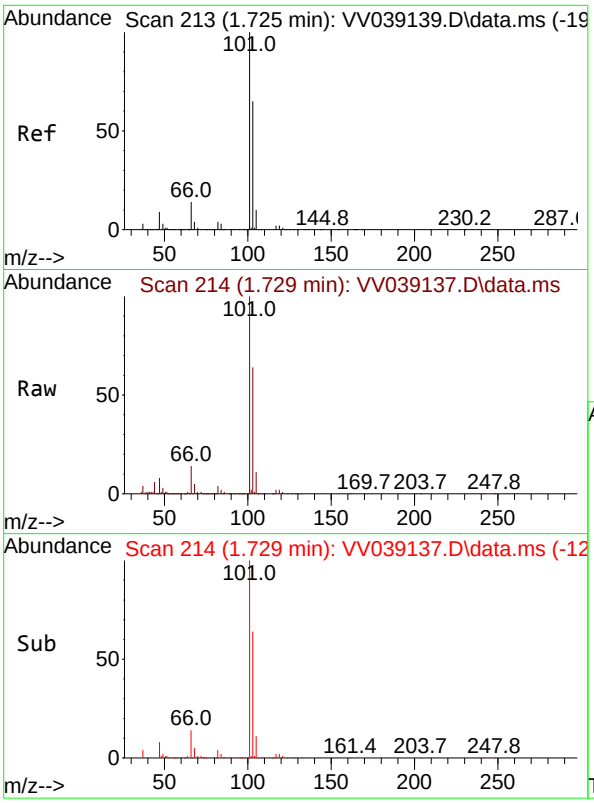


#6
Chloroethane
Concen: 11.087 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 64 Resp: 66412

Ion	Ratio	Lower	Upper
64	100		
66	31.8	24.6	36.8



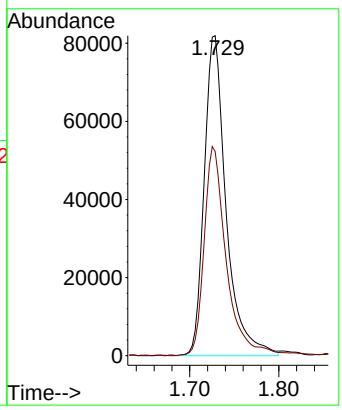


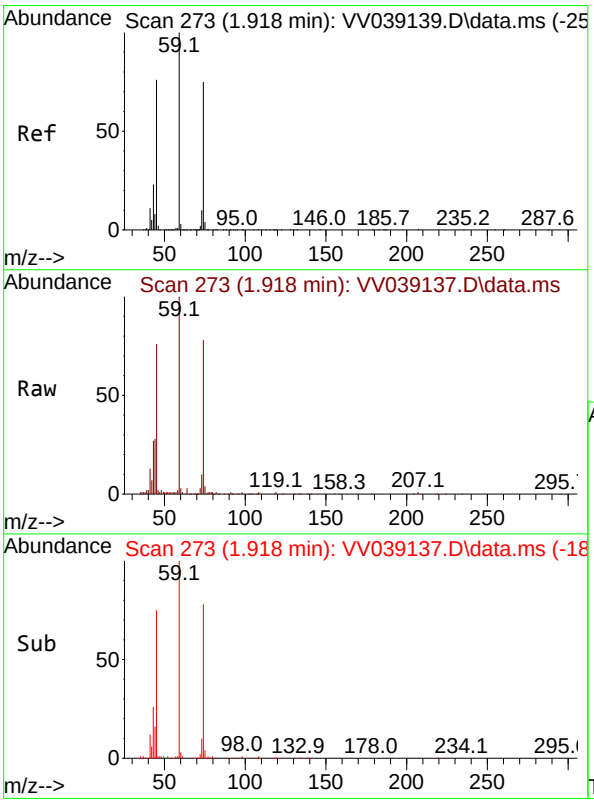
#7
Trichlorofluoromethane
Concen: 10.588 ug/l
RT: 1.729 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 139927

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.0	78.0

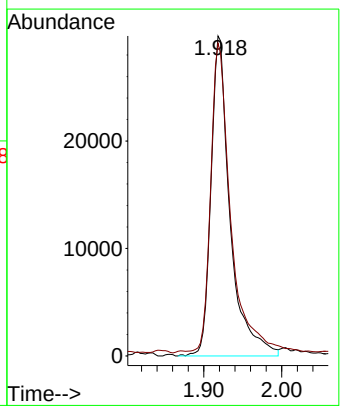


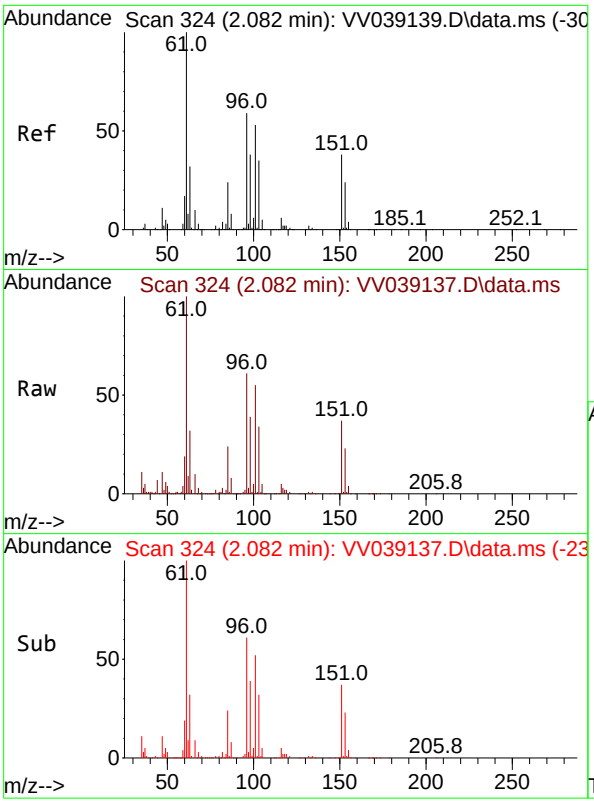


#8
Diethyl Ether
Concen: 10.328 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 74 Resp: 50669

Ion	Ratio	Lower	Upper
74	100		
45	100.7	49.6	148.8



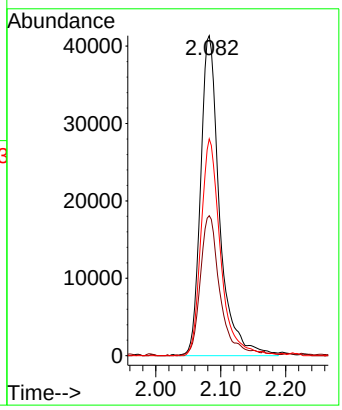


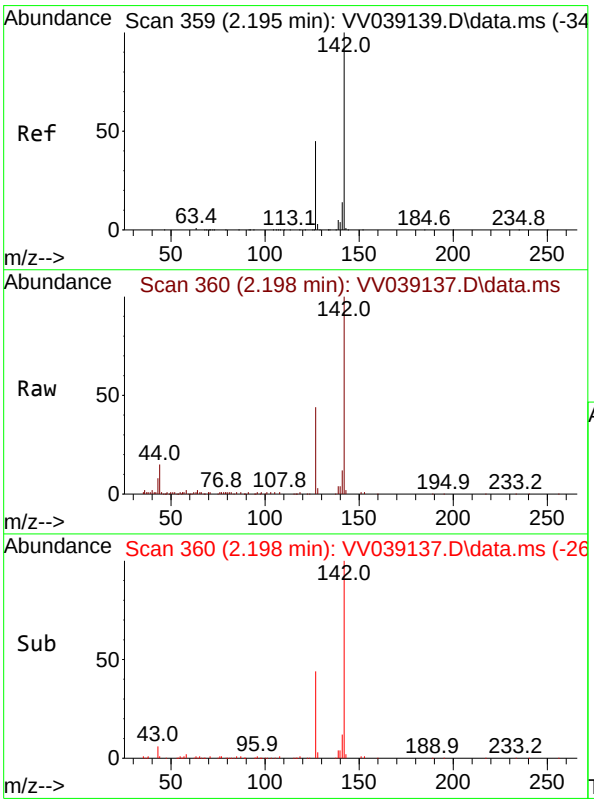
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.711 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 84221

Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.2	54.2
151	69.6	56.3	84.5

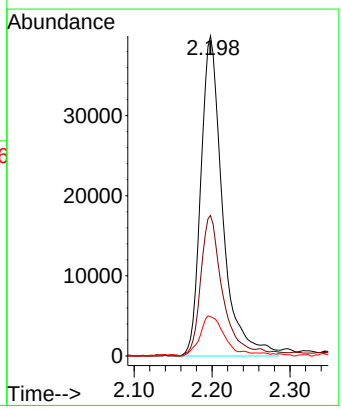


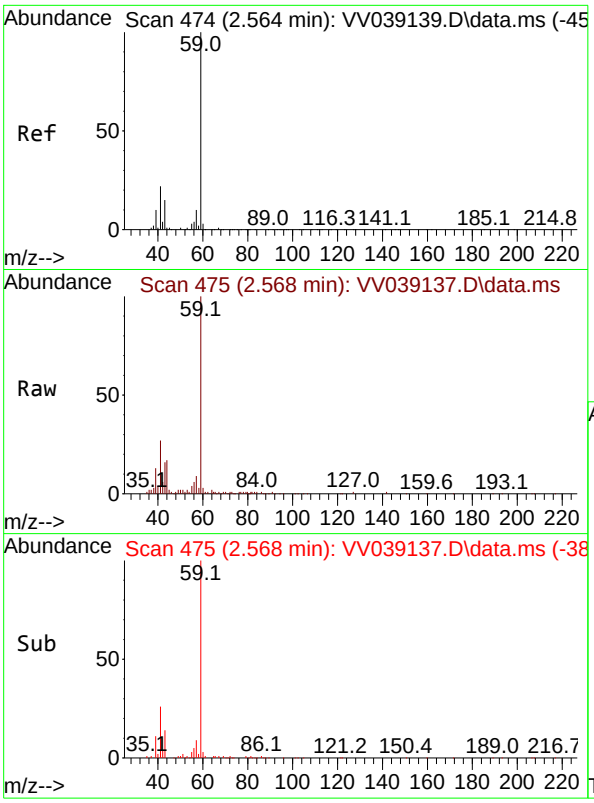


#10
Methyl Iodide
Concen: 10.343 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:142 Resp: 77448

Ion	Ratio	Lower	Upper
142	100		
127	43.6	36.3	54.5
141	13.5	11.2	16.8



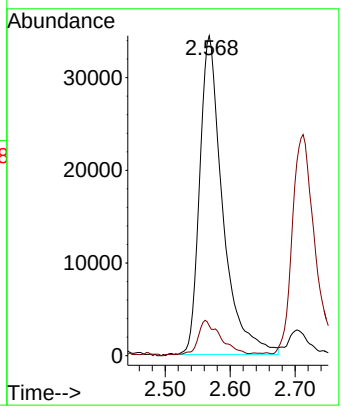


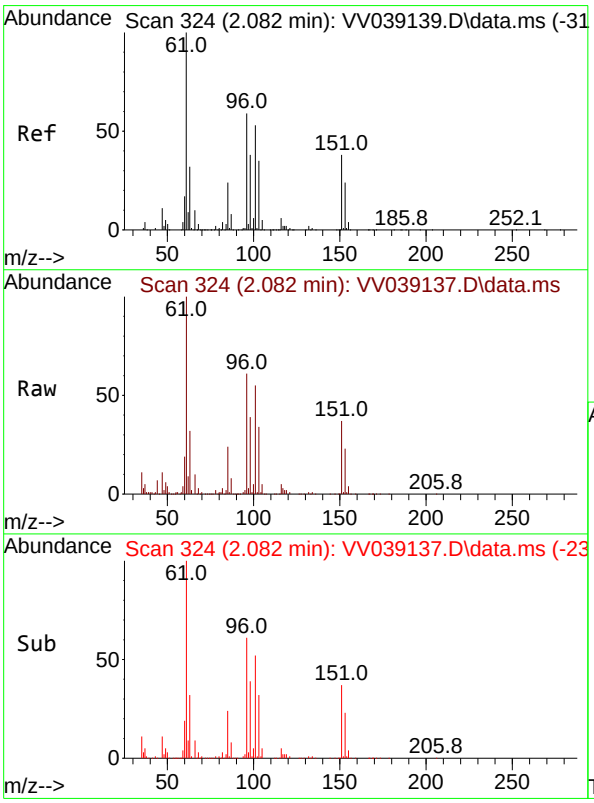
#11
Tert butyl alcohol
Concen: 55.130 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 84609

Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.8	11.8

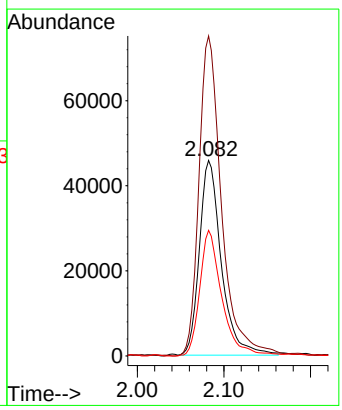


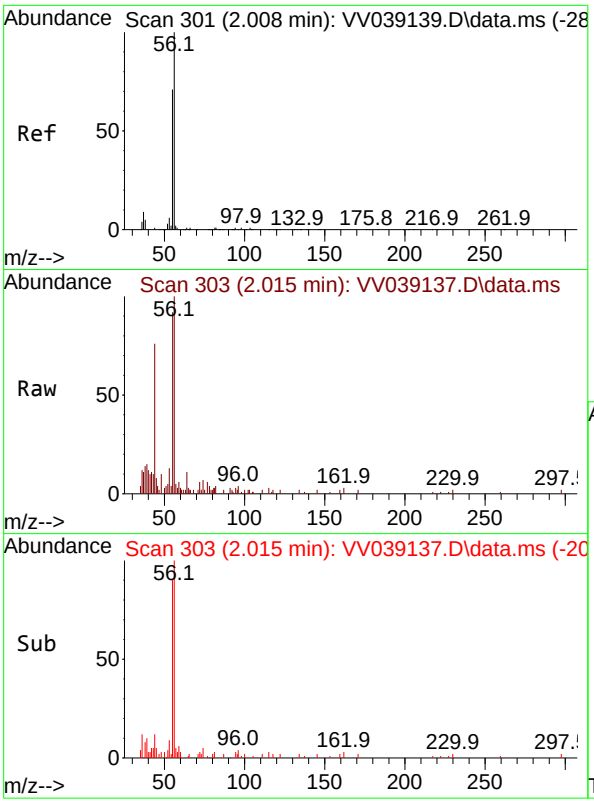


#12
1,1-Dichloroethene
Concen: 10.669 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 96 Resp: 80704

Ion	Ratio	Lower	Upper
96	100		
61	164.2	136.0	204.0
98	64.6	51.0	76.6



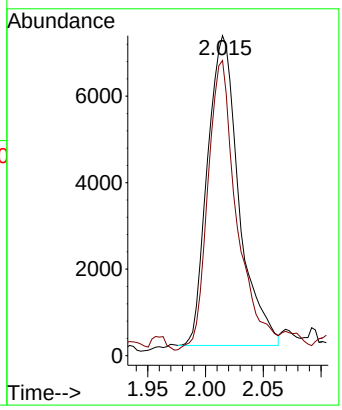


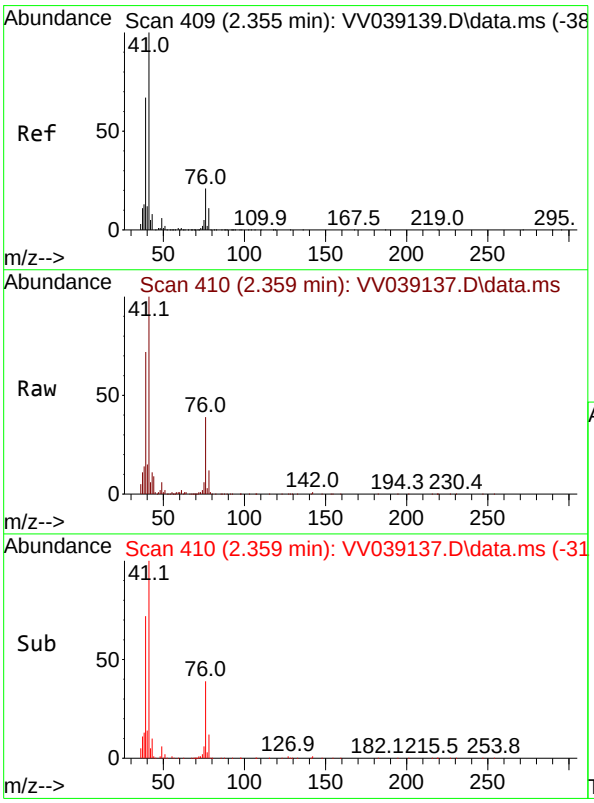
#13
Acrolein
Concen: 50.908 ug/l
RT: 2.015 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 13557

Ion	Ratio	Lower	Upper
56	100		
55	86.9	56.2	84.4#

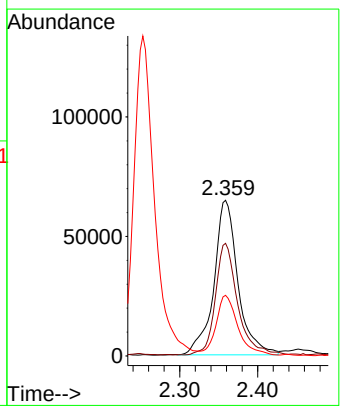


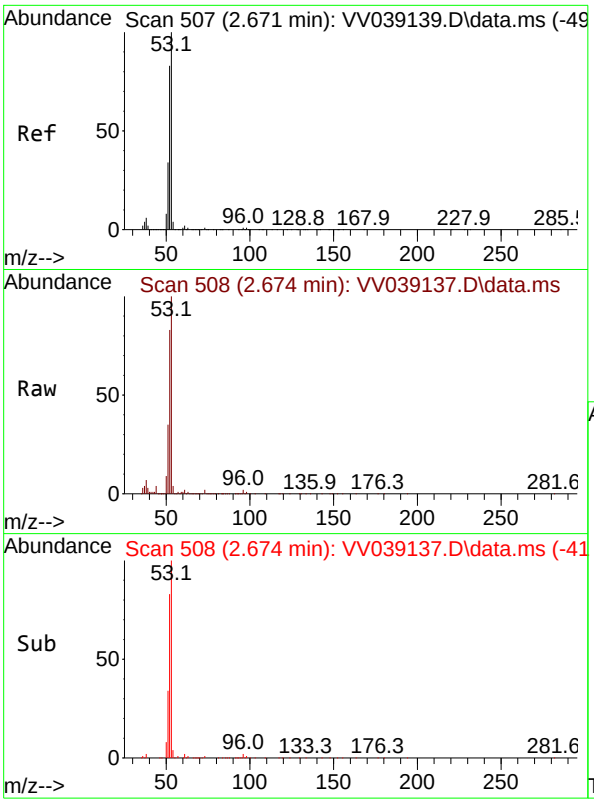


#14
Allyl chloride
Concen: 10.305 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 41 Resp: 139249

Ion	Ratio	Lower	Upper
41	100		
39	66.2	51.0	76.6
76	35.0	28.2	42.4



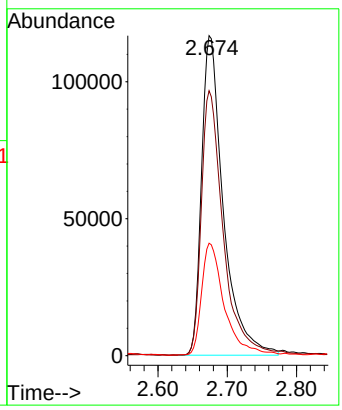


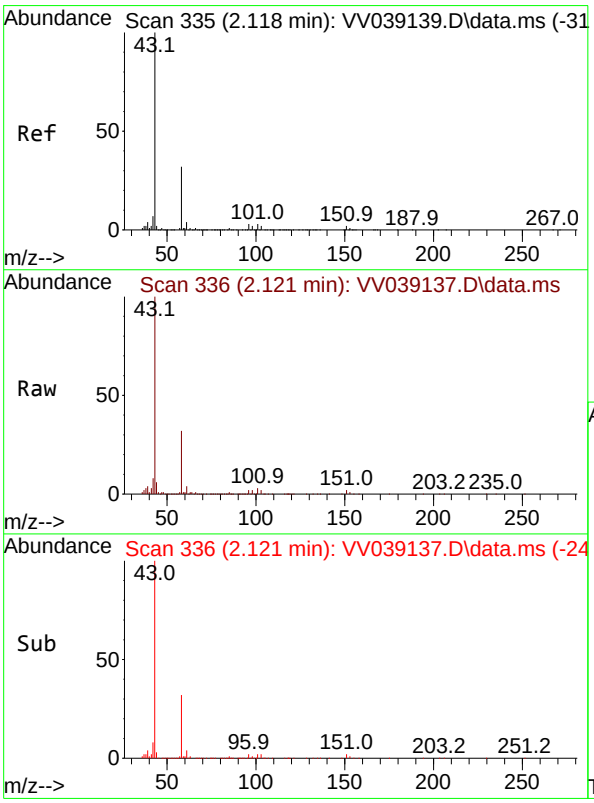
#15
Acrylonitrile
Concen: 51.676 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 254235

Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.1	99.1
51	36.5	28.5	42.7

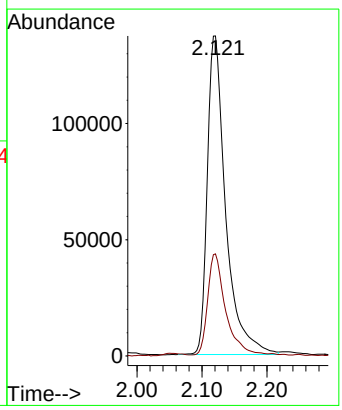


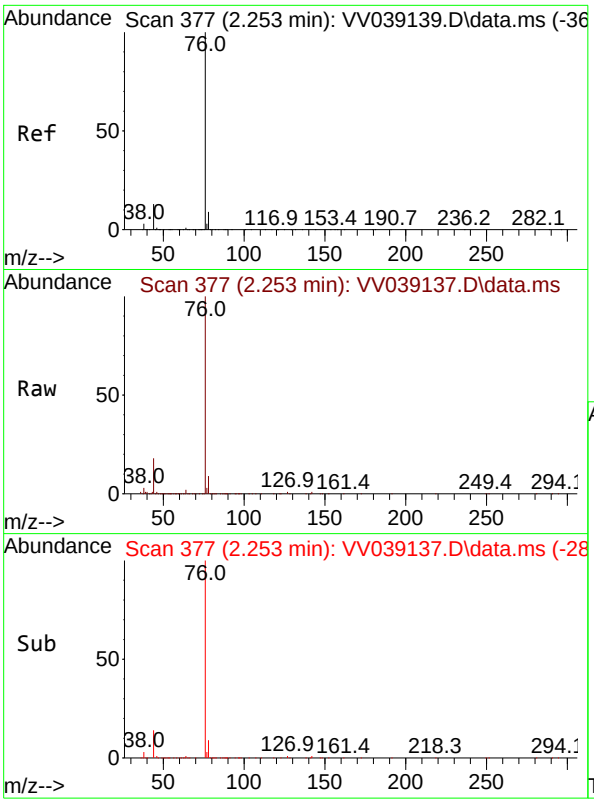


#16
Acetone
Concen: 53.773 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 269573

Ion	Ratio	Lower	Upper
43	100		
58	31.6	25.8	38.6



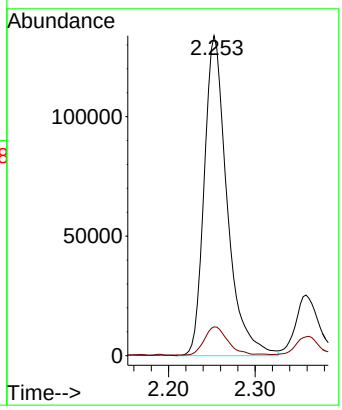


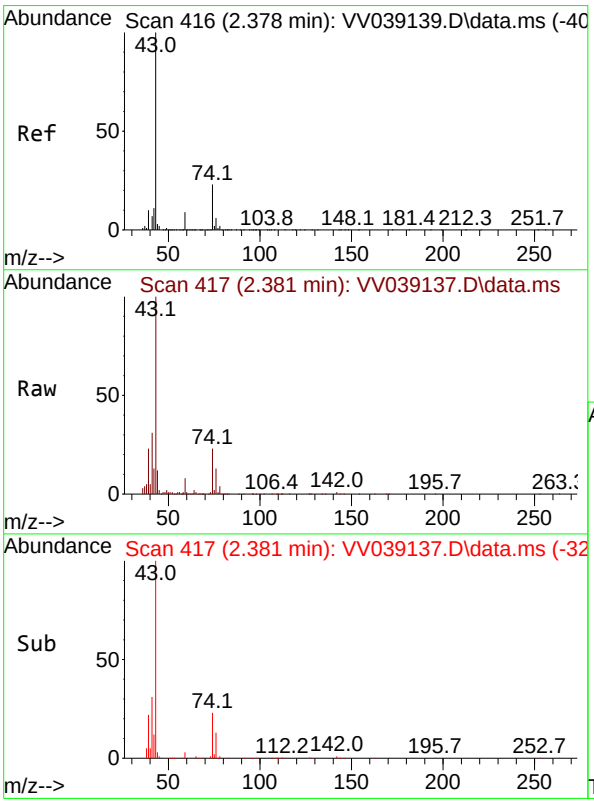
#17
Carbon Disulfide
Concen: 10.639 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 246125

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

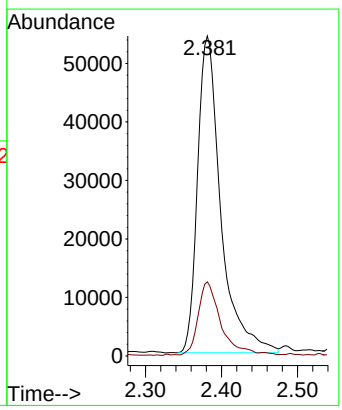


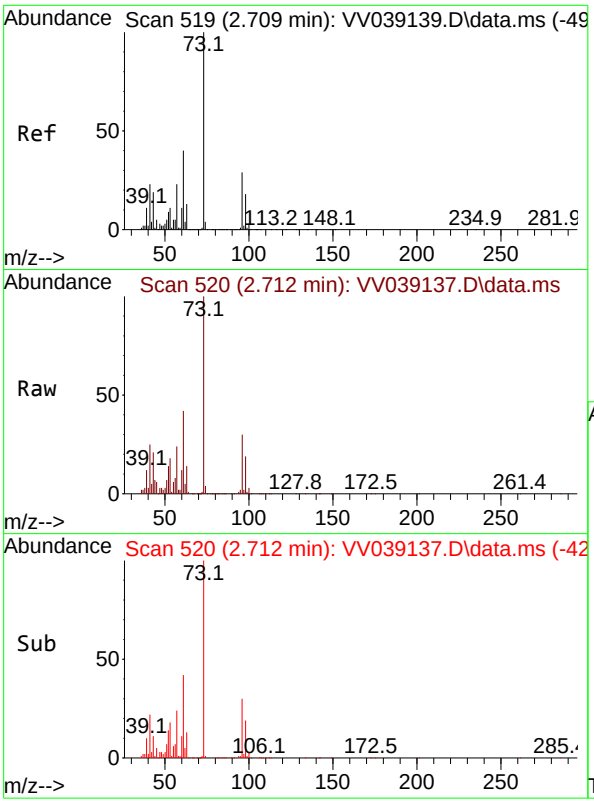


#18
Methyl Acetate
Concen: 10.689 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 115005

Ion	Ratio	Lower	Upper
43	100		
74	21.9	18.6	27.8



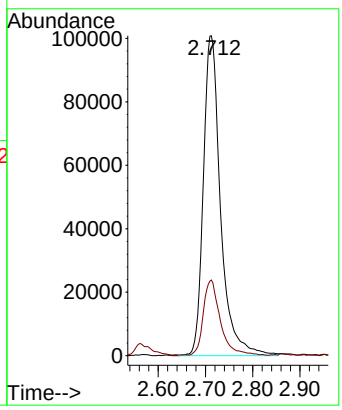


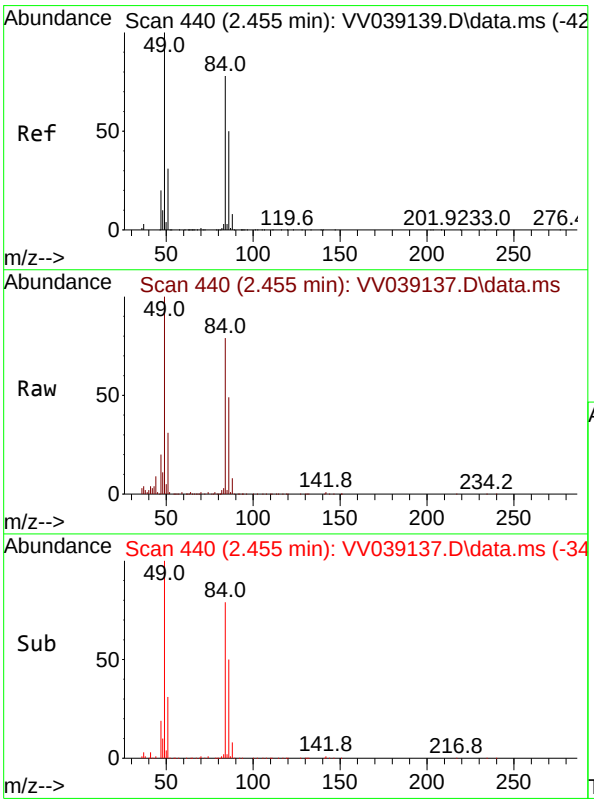
#19
Methyl tert-butyl Ether
Concen: 10.601 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 255535

Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.2	27.4

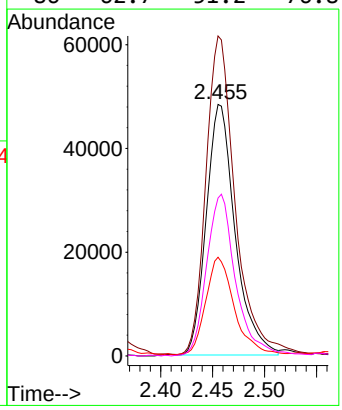


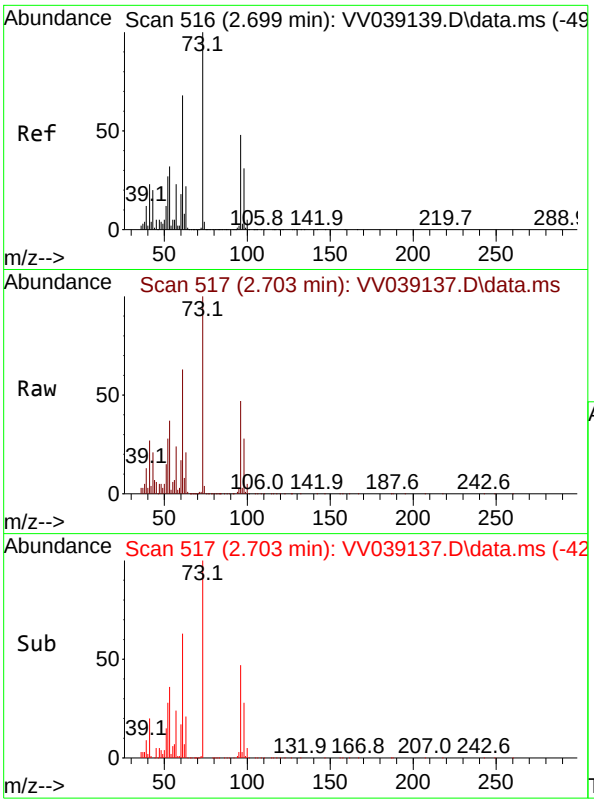


#20
Methylene Chloride
Concen: 10.106 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 84 Resp: 93350

Ion	Ratio	Lower	Upper
84	100		
49	127.1	102.8	154.2
51	38.7	31.9	47.9
86	62.7	51.2	76.8



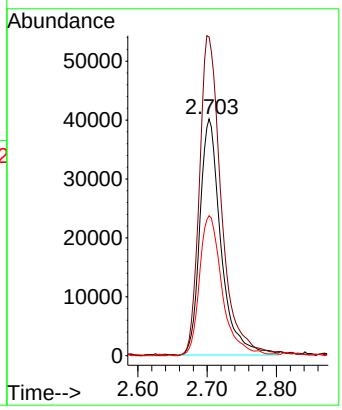


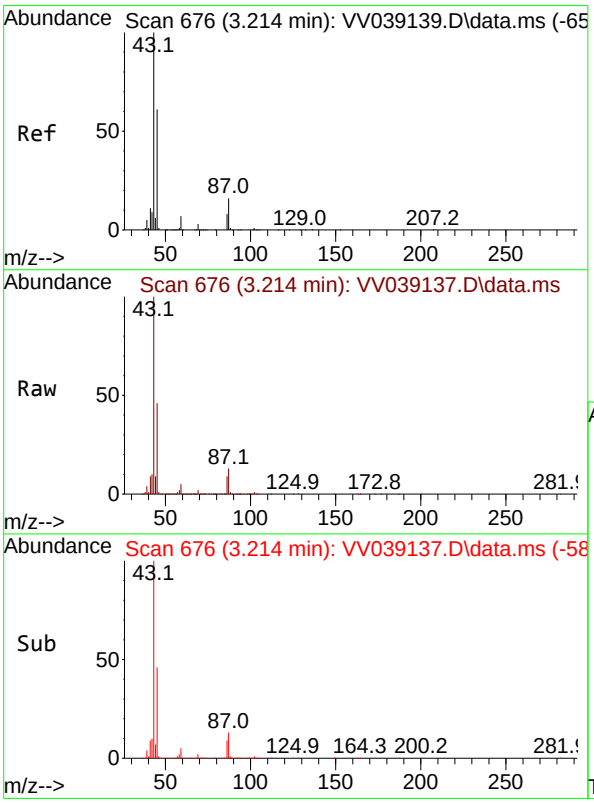
#21
trans-1,2-Dichloroethene
Concen: 10.541 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 84891

Ion	Ratio	Lower	Upper
96	100		
61	135.3	112.8	169.2
98	59.5	51.1	76.7

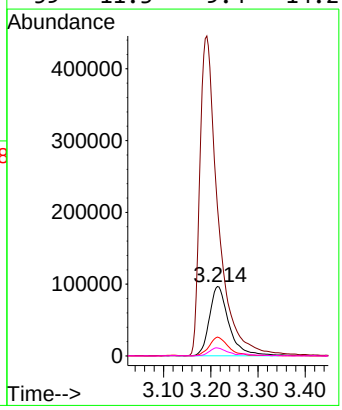


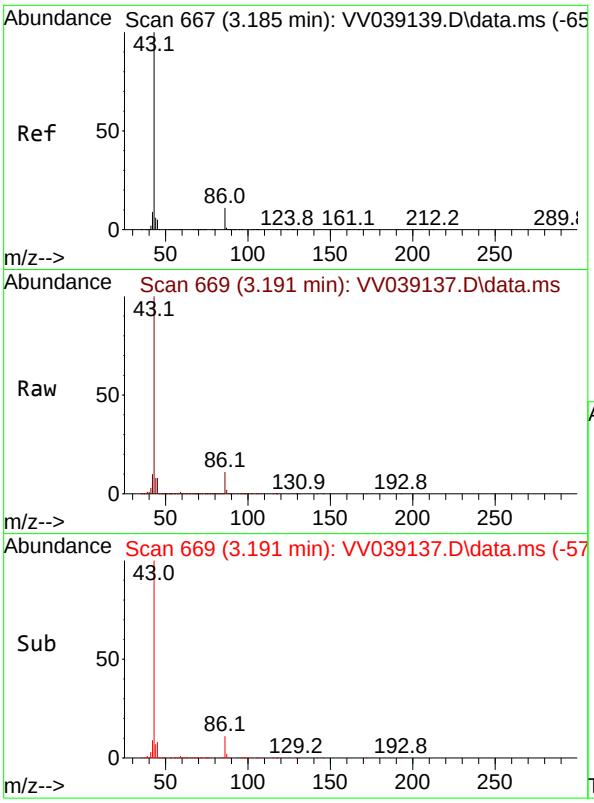


#22
Diisopropyl ether
Concen: 10.699 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 45 Resp: 276604

Ion	Ratio	Lower	Upper
45	100		
43	215.7	130.9	196.3#
87	26.8	21.1	31.7
59	11.3	9.4	14.2



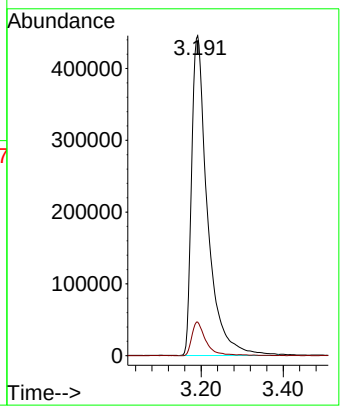


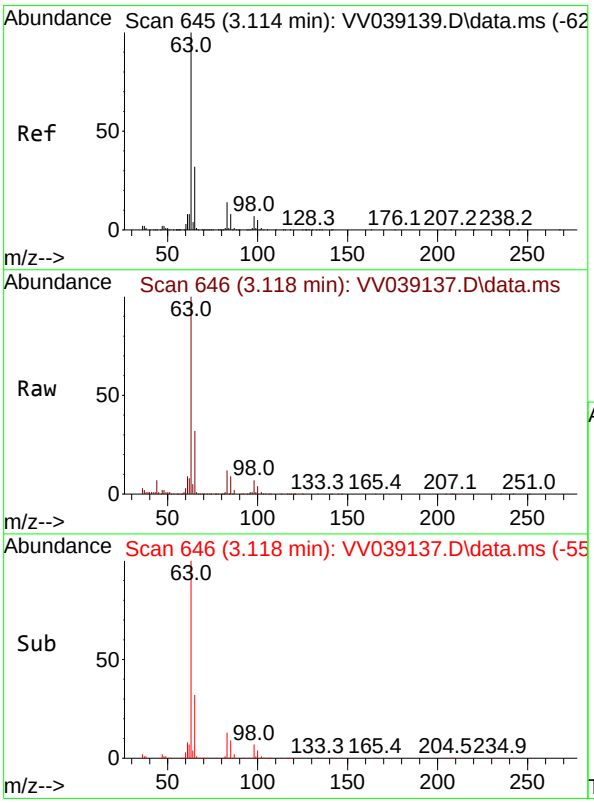
#23
Vinyl Acetate
Concen: 53.087 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 1200618

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.4	12.6

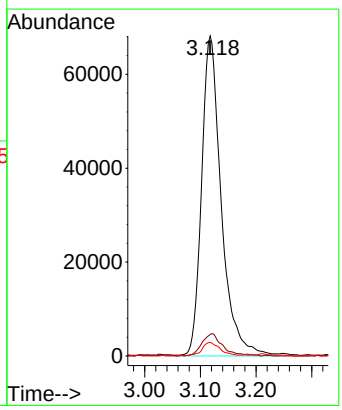


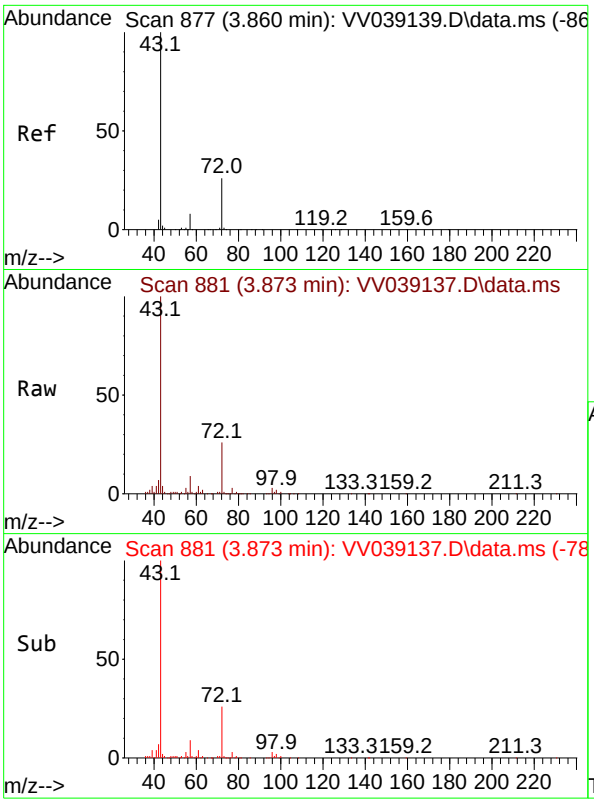


#24
1,1-Dichloroethane
Concen: 10.594 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 63 Resp: 167496

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.4	10.2
100	4.2	2.2	6.6



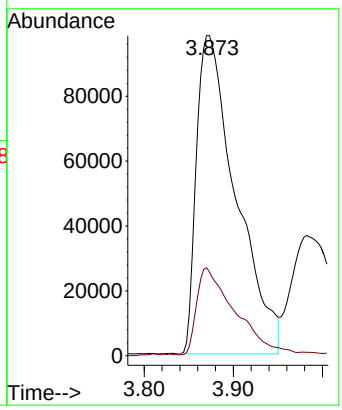


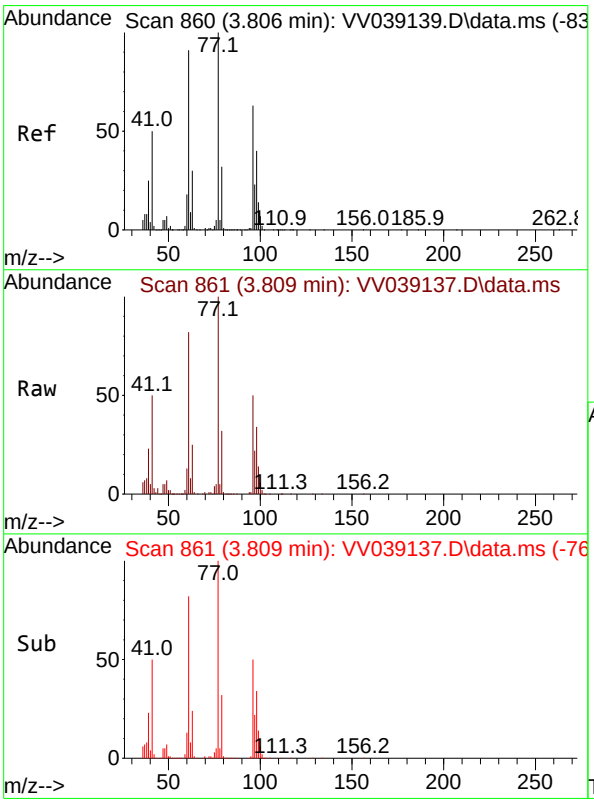
#25
2-Butanone
Concen: 53.015 ug/l
RT: 3.873 min Scan# 8
Delta R.T. 0.013 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 303016

Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.0	31.6

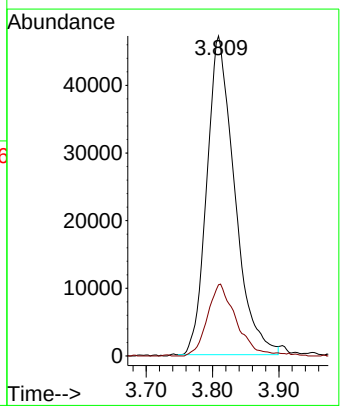


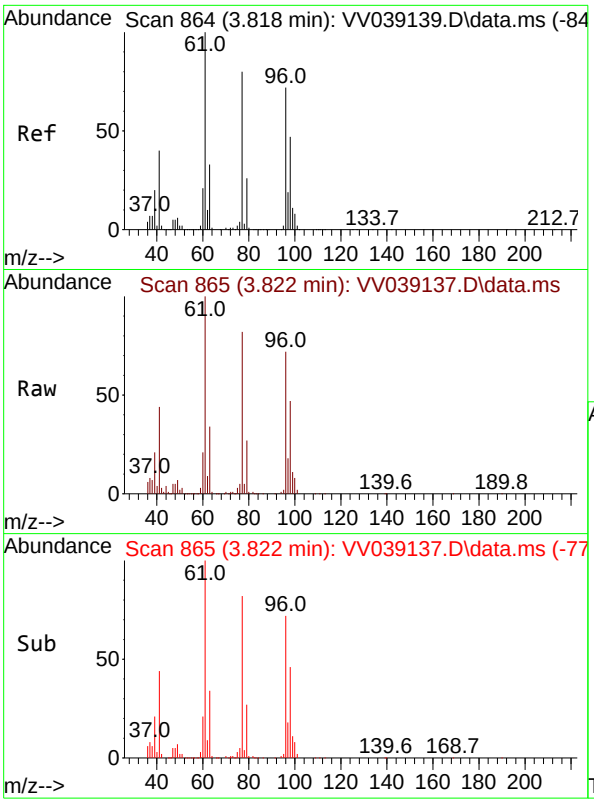


#26
2,2-Dichloropropane
Concen: 9.806 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 77 Resp: 136919

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



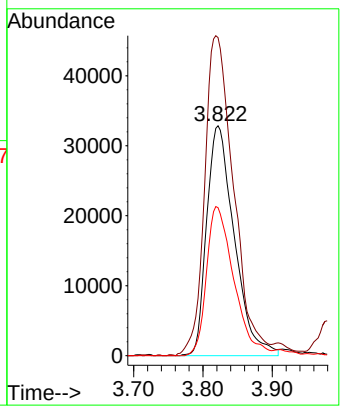


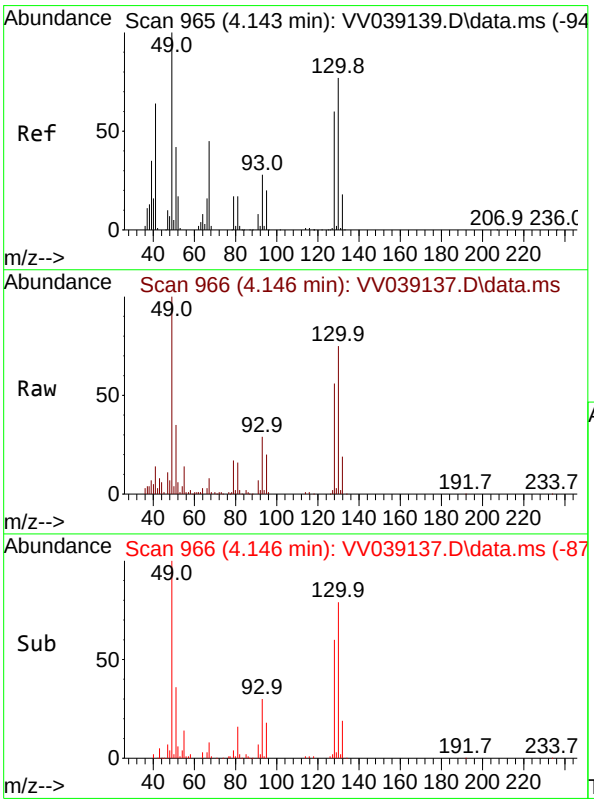
#27
cis-1,2-Dichloroethene
Concen: 10.254 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 91069

Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	286.4
98	63.9	0.0	126.6

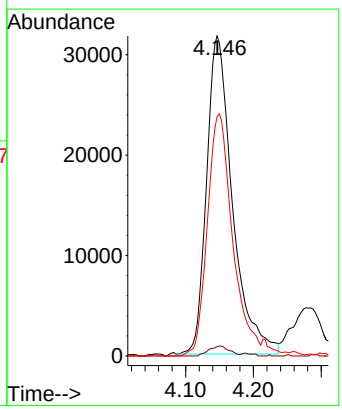


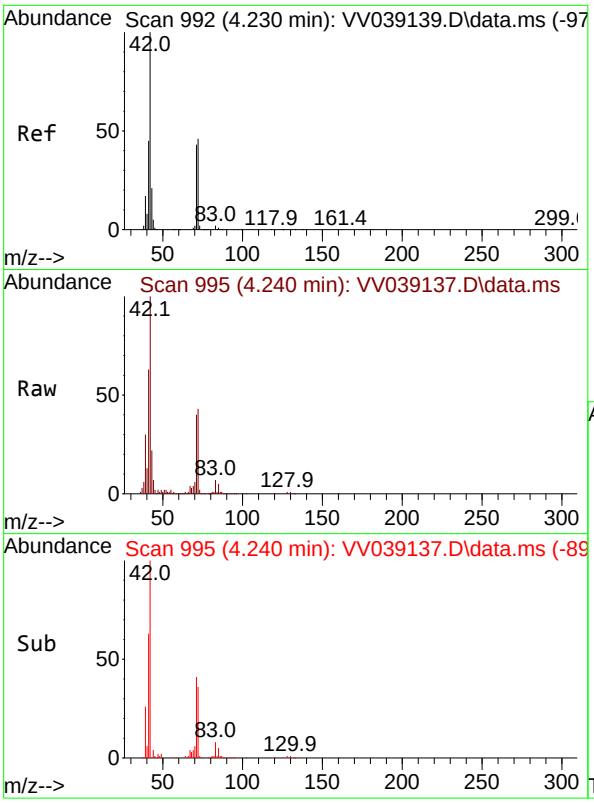


#28
Bromochloromethane
Concen: 12.019 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 49 Resp: 83889

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	73.9	60.2	90.2



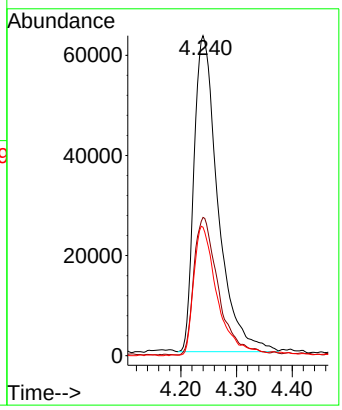


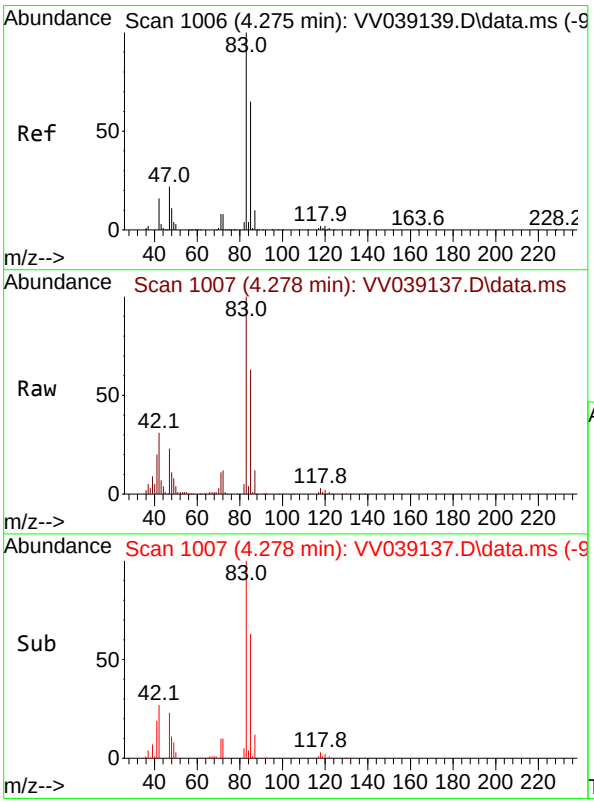
#29
Tetrahydrofuran
Concen: 51.879 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 188818

Ion	Ratio	Lower	Upper
42	100		
72	43.7	36.3	54.5
71	40.0	34.3	51.5

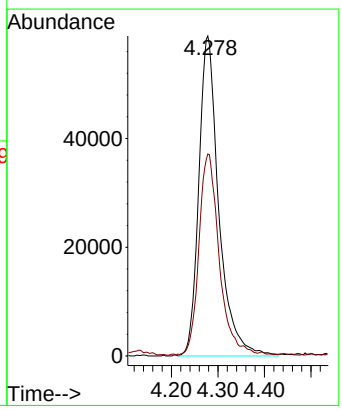


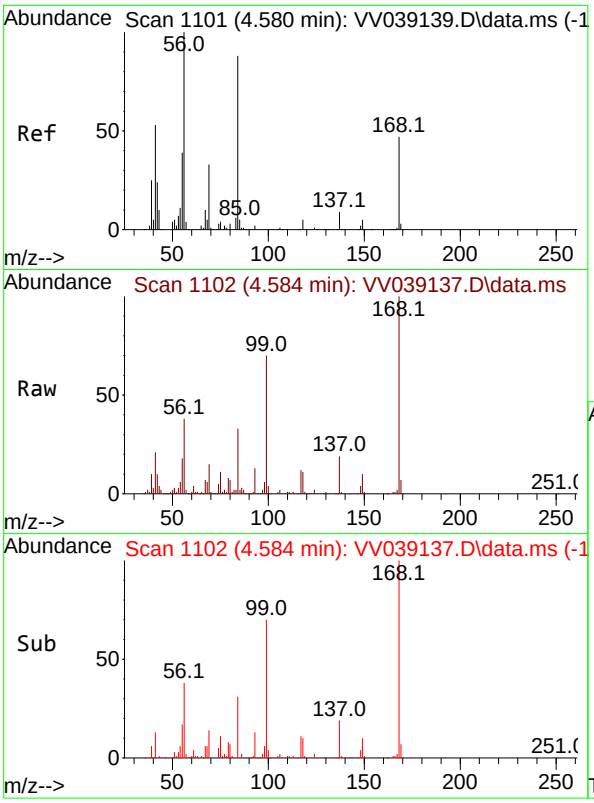


#30
Chloroform
Concen: 10.652 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 83 Resp: 175847

Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.1	78.1



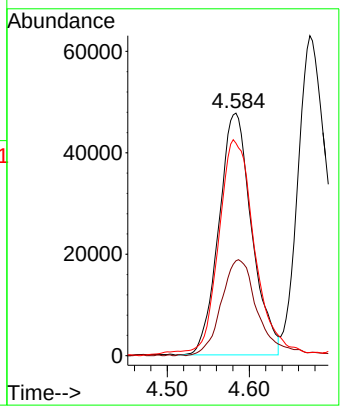


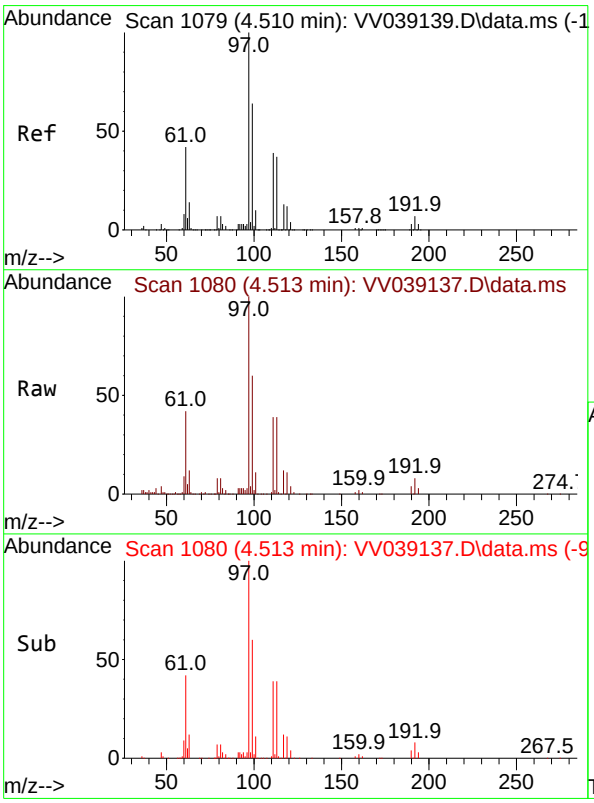
#31
Cyclohexane
Concen: 10.269 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 132996

Ion	Ratio	Lower	Upper
56	100		
69	38.9	26.2	39.2
84	86.0	70.3	105.5

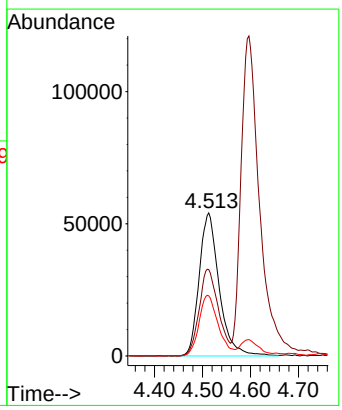


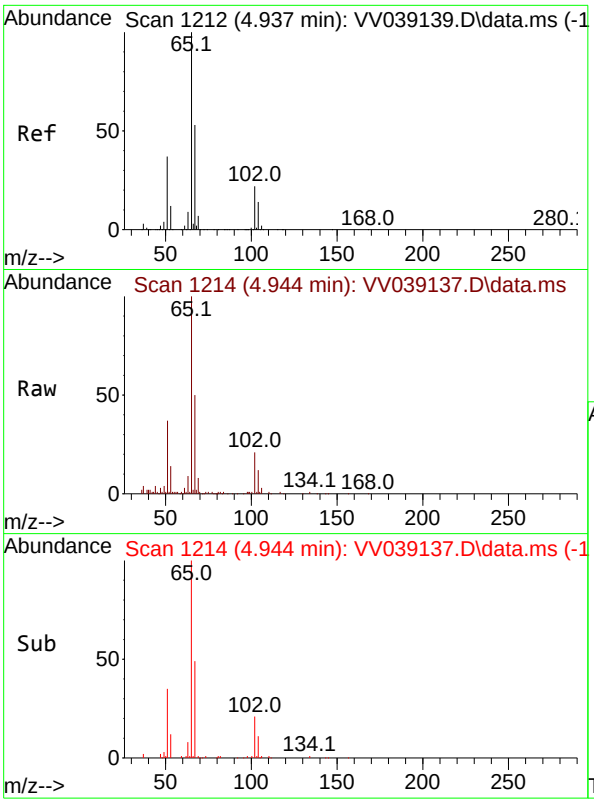


#32
1,1,1-Trichloroethane
Concen: 10.966 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 97 Resp: 156733

Ion	Ratio	Lower	Upper
97	100		
99	58.2	49.6	74.4
61	40.9	34.5	51.7



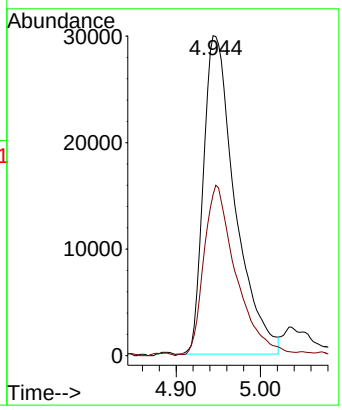


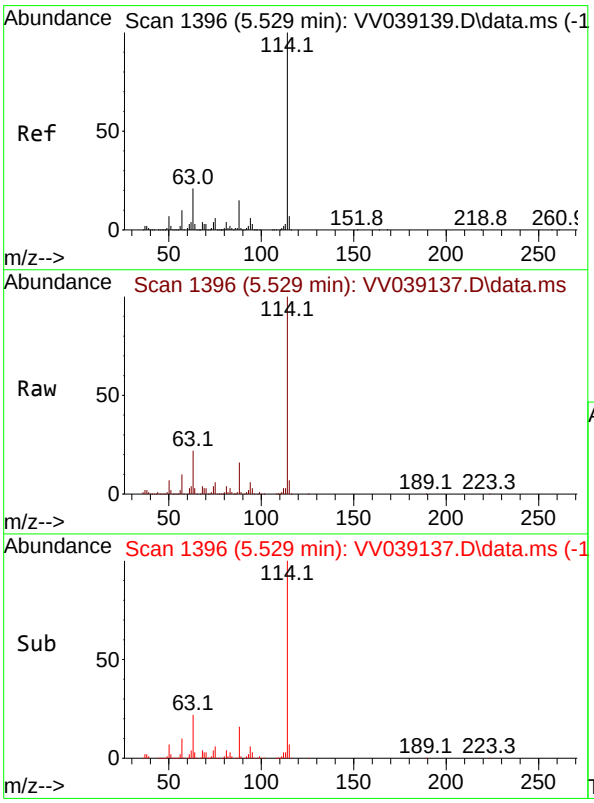
#33
1,2-Dichloroethane-d4
Concen: 10.688 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 77610

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	107.0

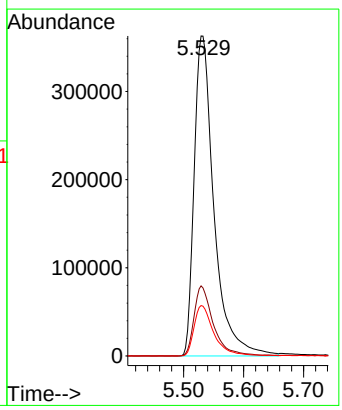


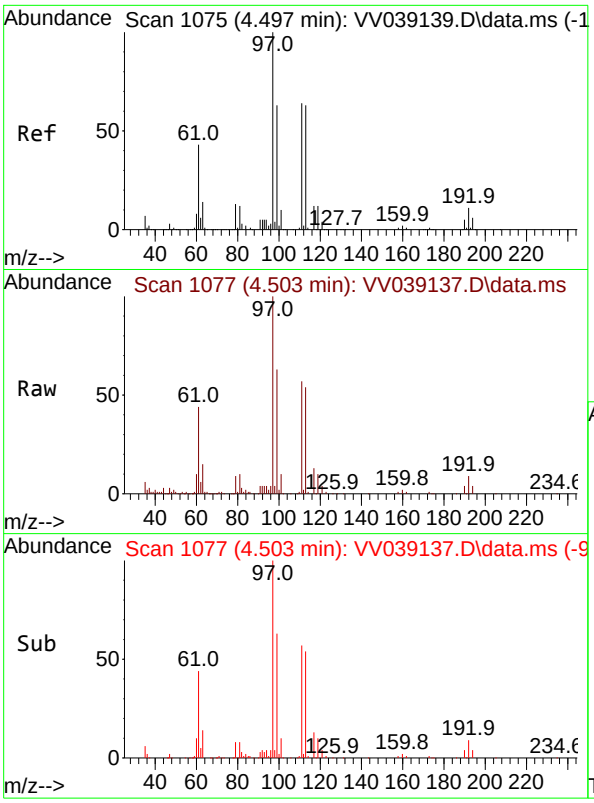


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:114 Resp: 837272

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.6
88	15.8	0.0	30.8



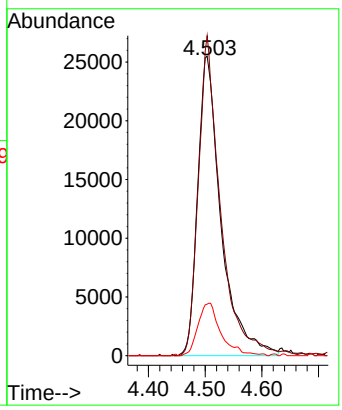


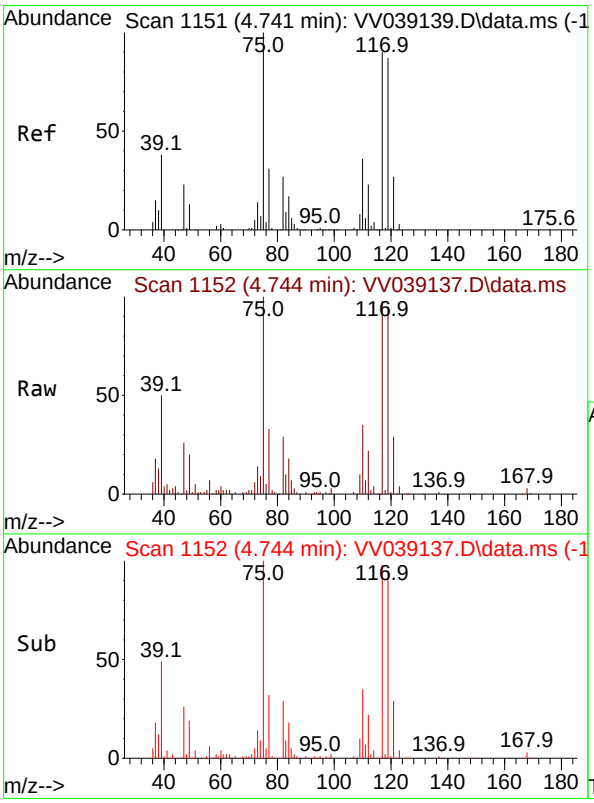
#35
Dibromofluoromethane
Concen: 10.833 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 72914

Ion	Ratio	Lower	Upper
113	100		
111	100.5	82.4	123.6
192	17.2	13.8	20.8

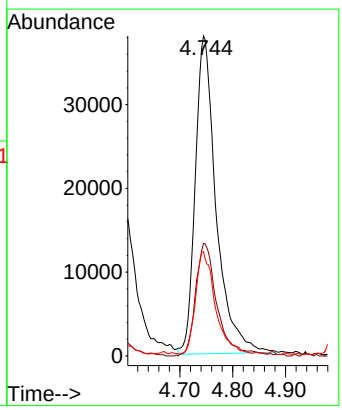


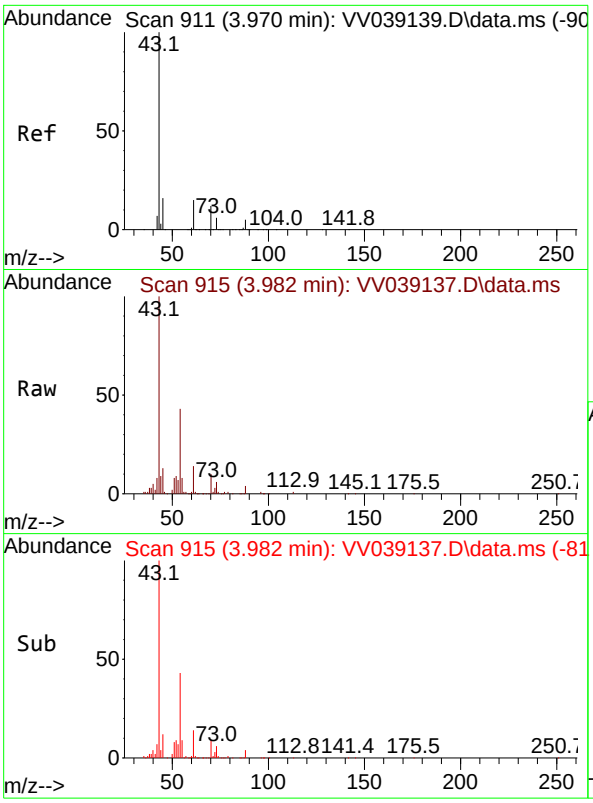


#36
1,1-Dichloropropene
Concen: 10.187 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 104420

Ion	Ratio	Lower	Upper
75	100		
110	35.4	18.1	54.1
77	30.2	24.8	37.2



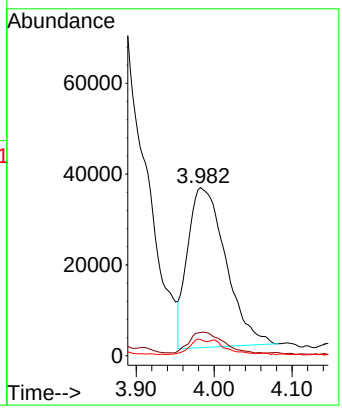


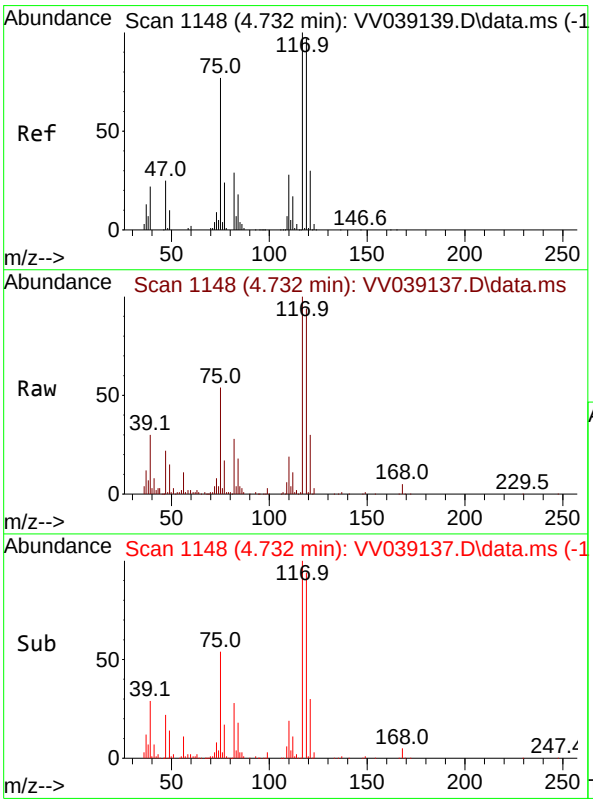
#37
Ethyl Acetate
Concen: 9.520 ug/l
RT: 3.982 min Scan# 91
Delta R.T. 0.012 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 119710

Ion	Ratio	Lower	Upper
43	100		
61	11.2	10.3	15.5
70	4.3	8.0	12.0#

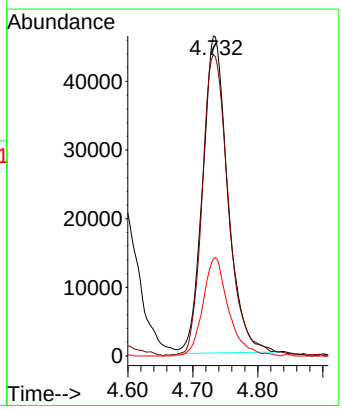


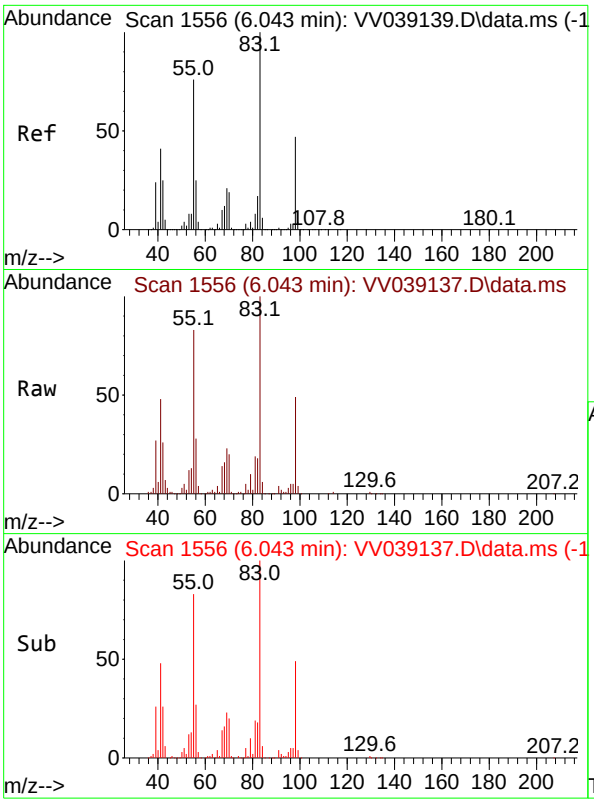


#38
Carbon Tetrachloride
Concen: 10.069 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:117 Resp: 124321

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.2	115.8
121	30.5	24.2	36.2



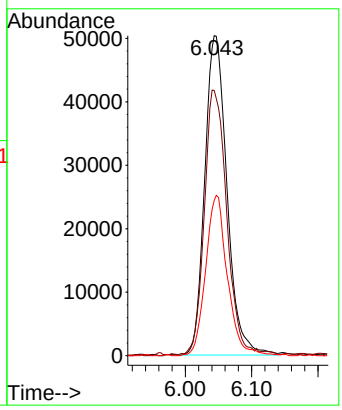


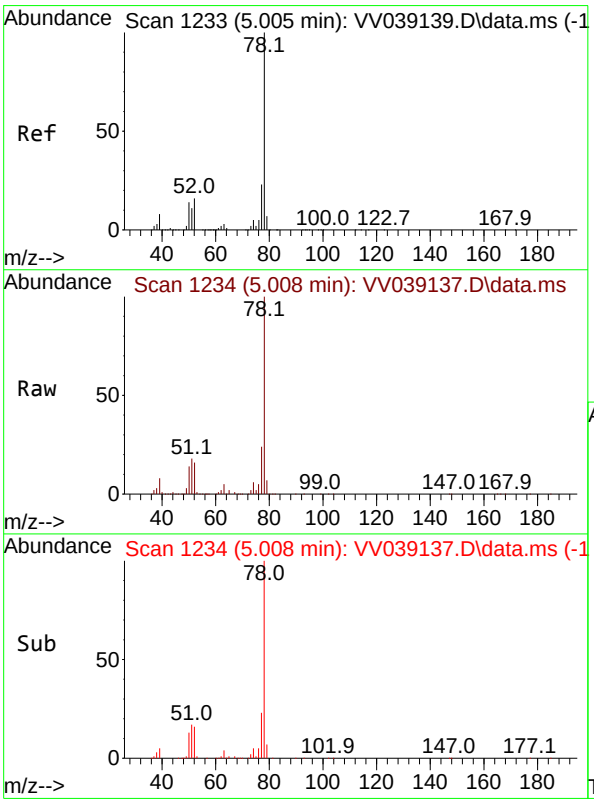
#39
Methylcyclohexane
Concen: 9.549 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 117354

Ion	Ratio	Lower	Upper
83	100		
55	82.7	60.5	90.7
98	48.6	37.8	56.6

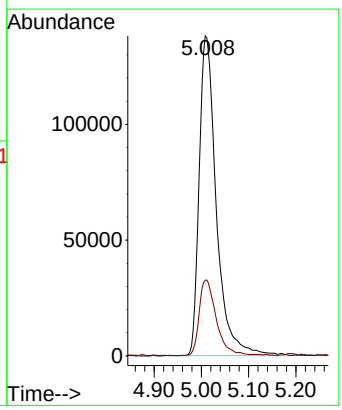


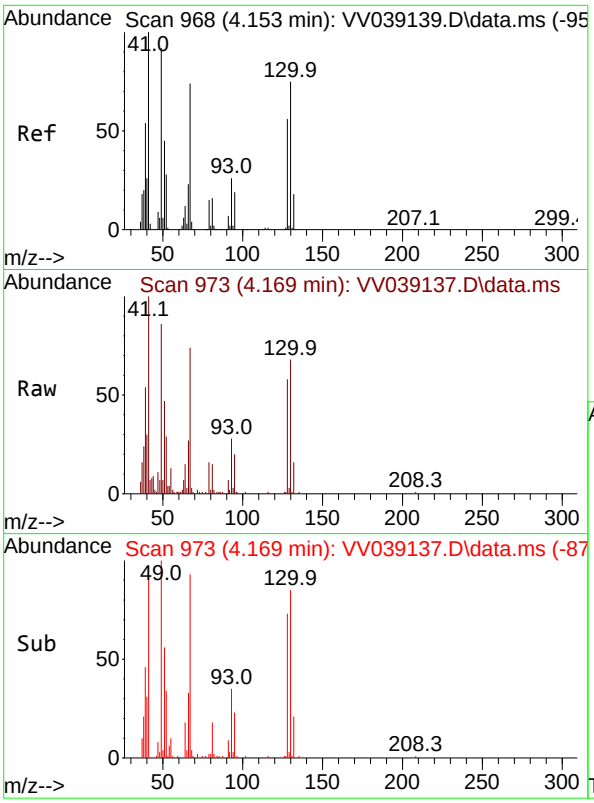


#40
Benzene
Concen: 10.493 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 78 Resp: 347728

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1



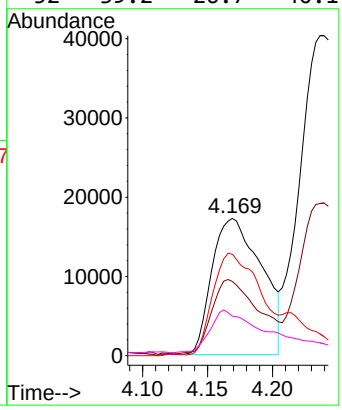


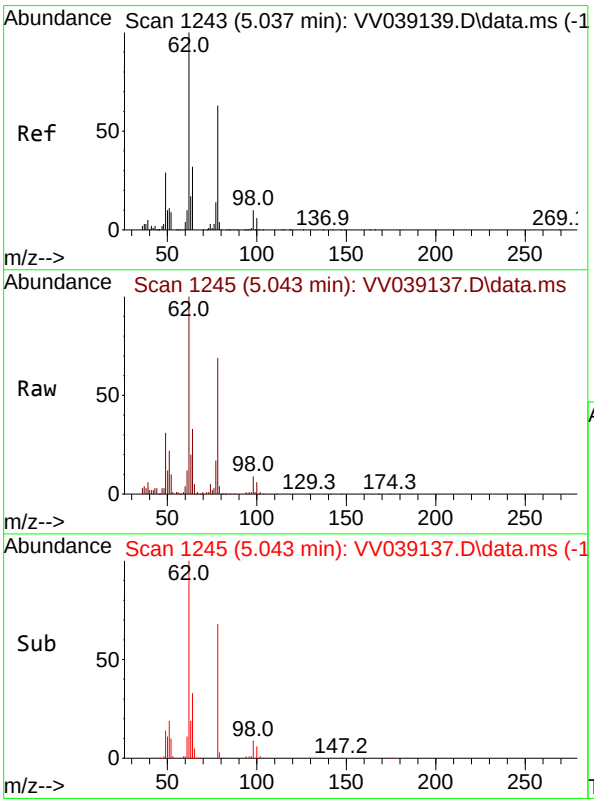
#41
Methacrylonitrile
Concen: 9.764 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 45674

Ion	Ratio	Lower	Upper
41	100		
39	53.9	42.2	63.2
67	70.9	67.9	101.9
52	39.2	26.7	40.1

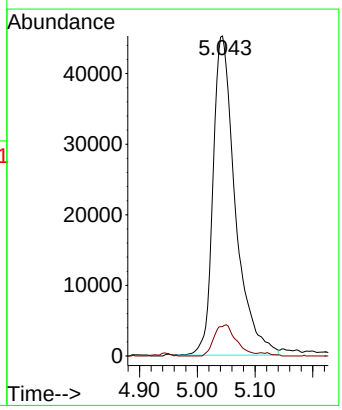


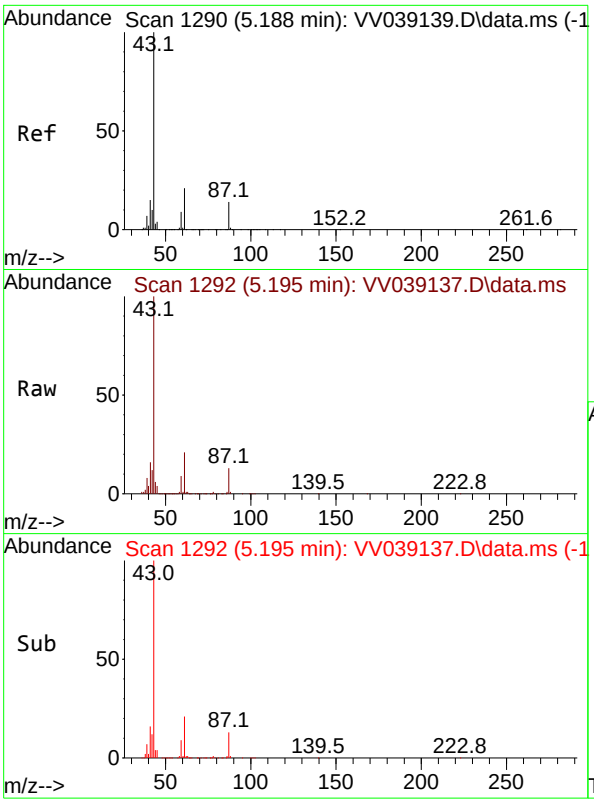


#42
1,2-Dichloroethane
Concen: 10.458 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 62 Resp: 121437

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.2



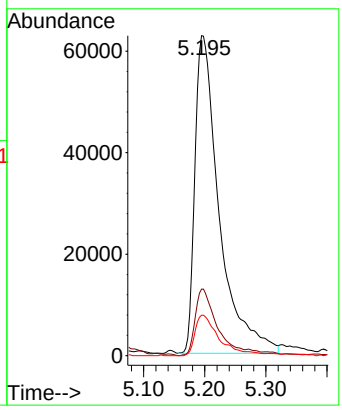


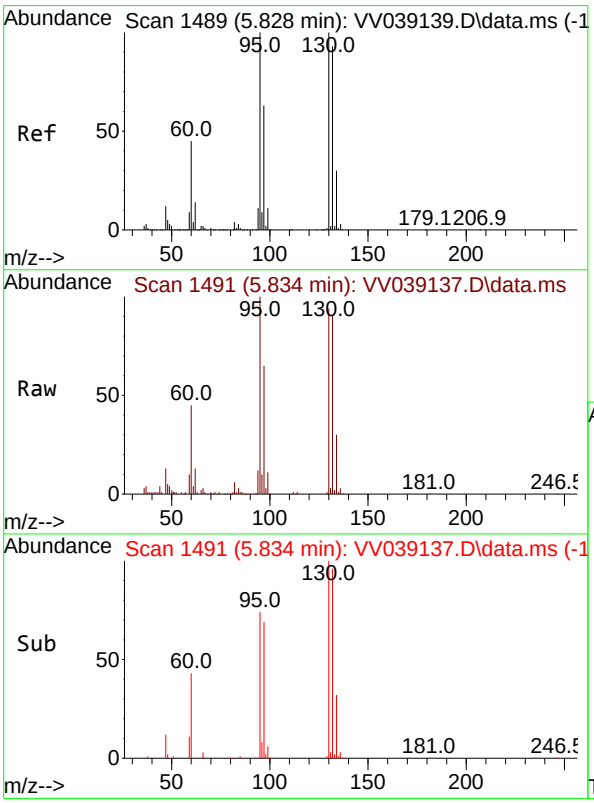
#43
Isopropyl Acetate
Concen: 9.980 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 172880

Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.9	23.9
87	12.7	11.0	16.6

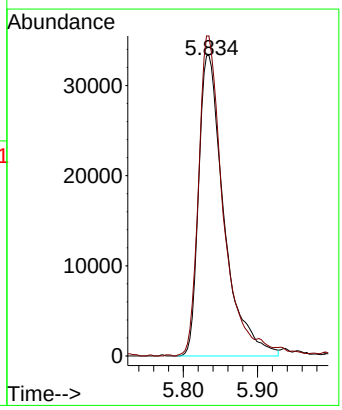


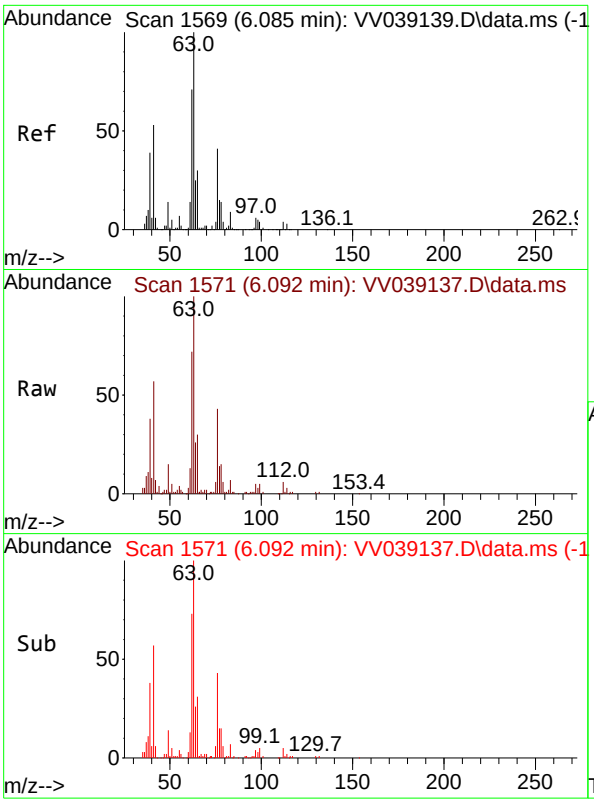


#44
Trichloroethene
Concen: 10.324 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:130 Resp: 78943

Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	199.2



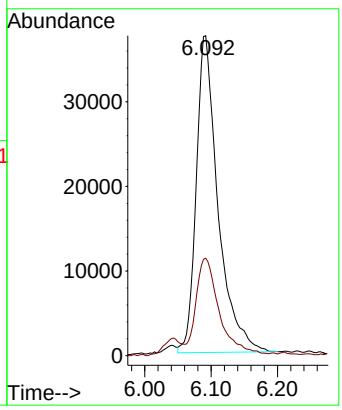


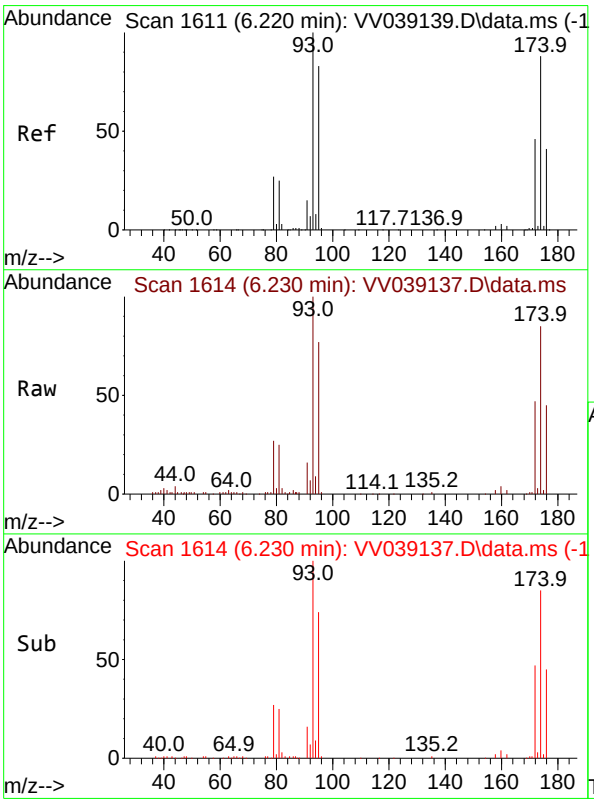
#45
1,2-Dichloropropane
Concen: 10.355 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 85295

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.7	35.5

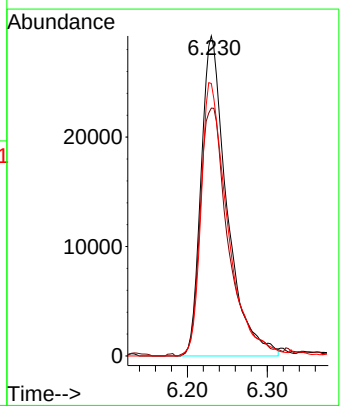


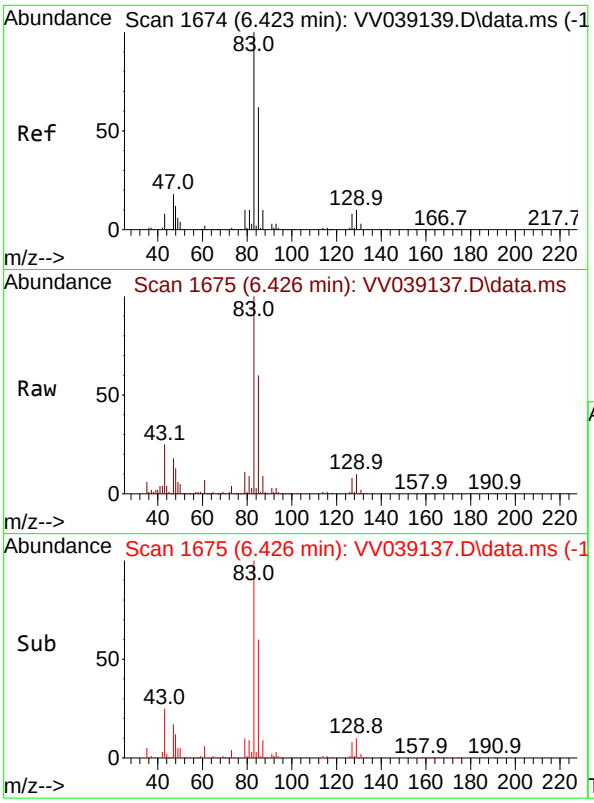


#46
Dibromomethane
Concen: 10.424 ug/l
RT: 6.230 min Scan# 1614
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 93 Resp: 65717

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.5	98.3
174	87.7	69.0	103.4



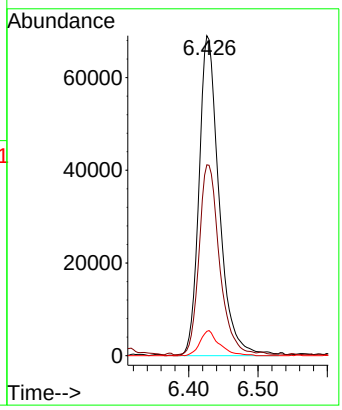


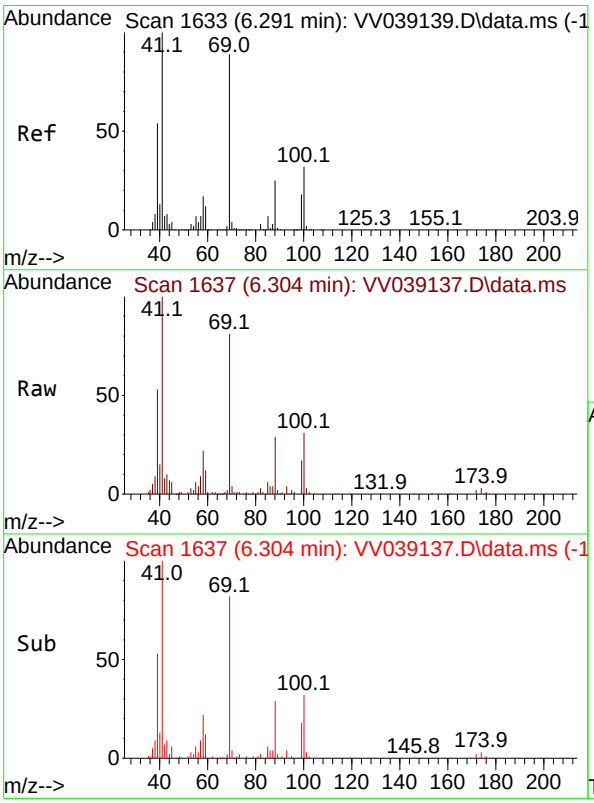
#47
Bromodichloromethane
Concen: 10.685 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 139261

Ion	Ratio	Lower	Upper
83	100		
85	59.3	49.7	74.5
127	7.6	6.6	9.8

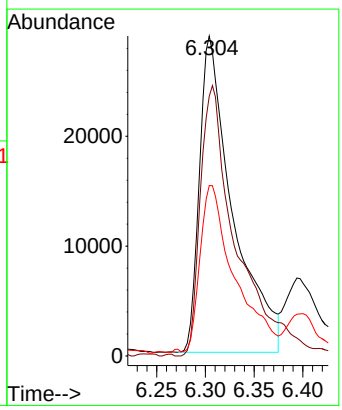


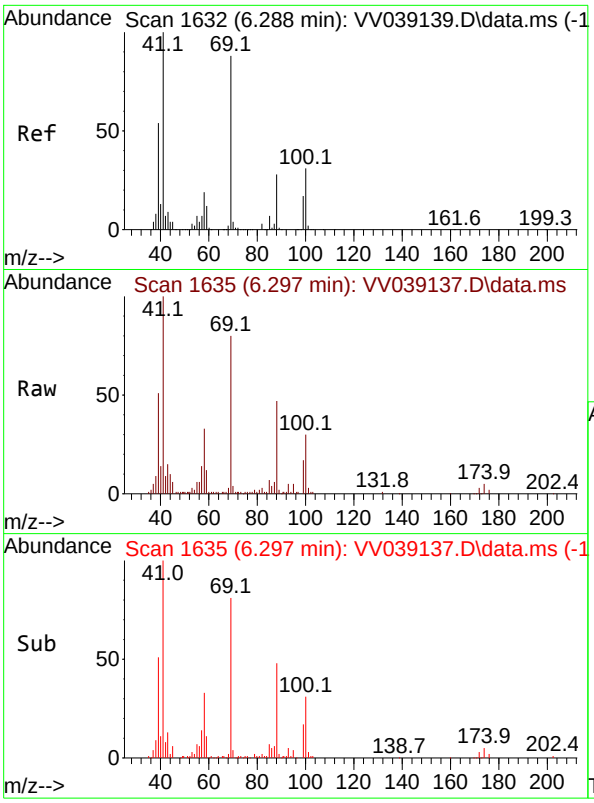


#48
Methyl methacrylate
Concen: 8.639 ug/l
RT: 6.304 min Scan# 1637
Delta R.T. 0.013 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 41 Resp: 68465

Ion	Ratio	Lower	Upper
41	100		
69	93.4	72.4	108.6
39	54.3	42.5	63.7



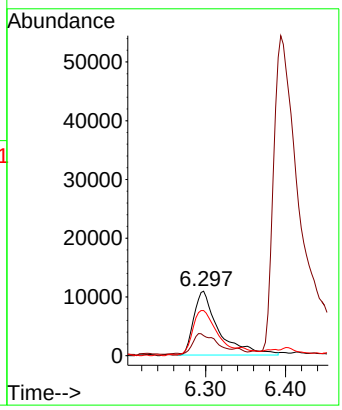


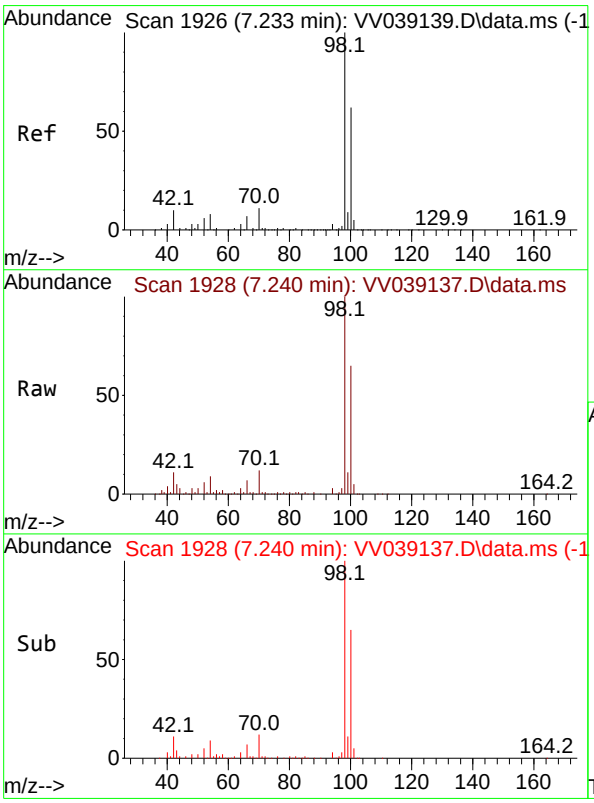
#49
1,4-Dioxane
Concen: 190.260 ug/l
RT: 6.297 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 23699

Ion	Ratio	Lower	Upper
88	100		
43	31.1	25.1	37.7
58	65.5	53.6	80.4

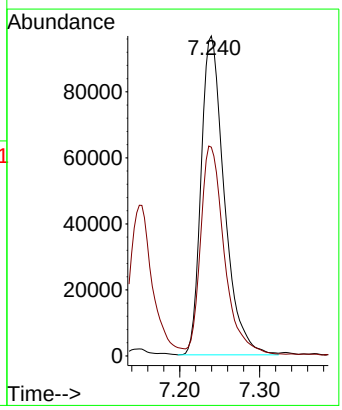


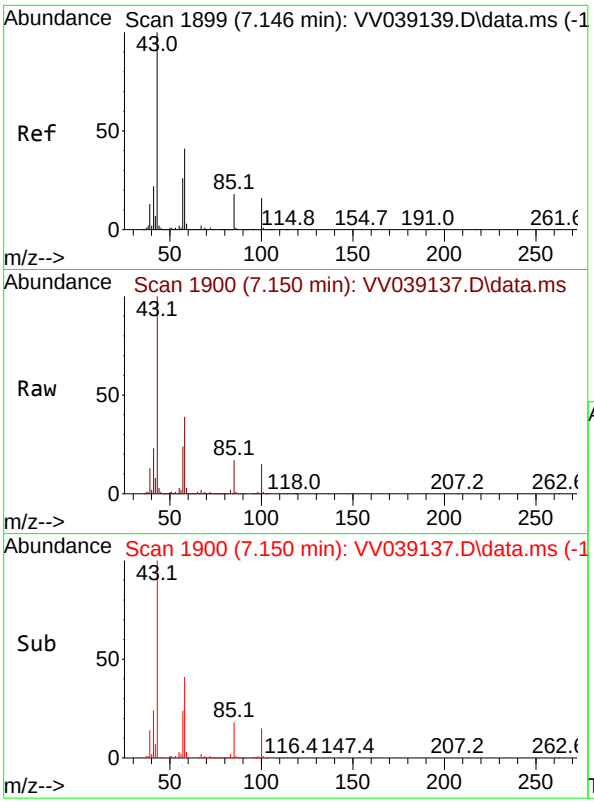


#50
Toluene-d8
Concen: 9.879 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 98 Resp: 195300

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.2	78.2



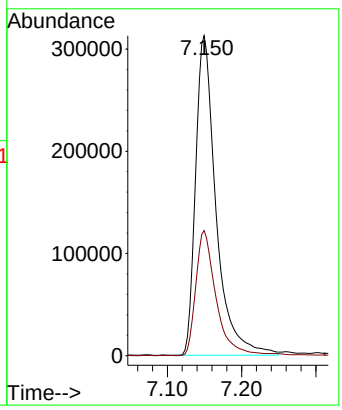


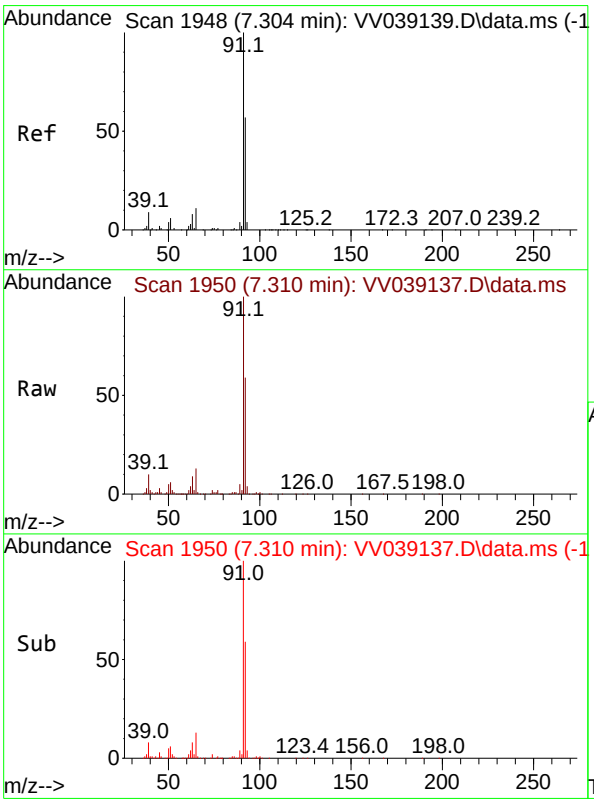
#51
4-Methyl-2-Pentanone
Concen: 54.051 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 598702

Ion	Ratio	Lower	Upper
43	100		
58	38.7	32.3	48.5

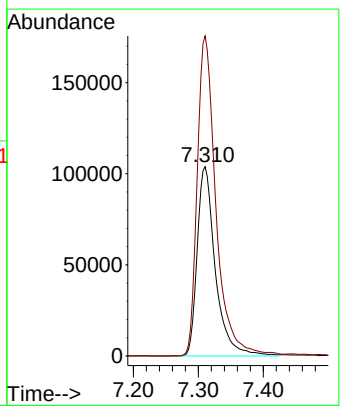


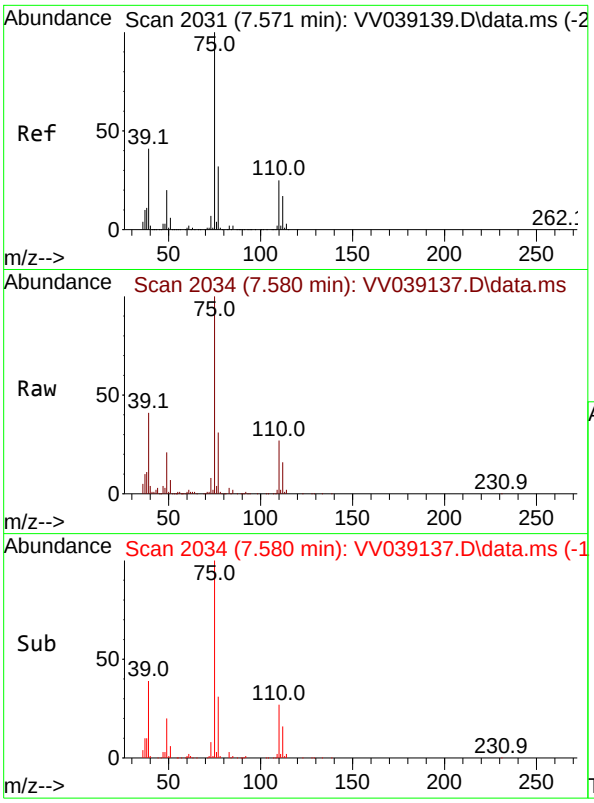


#52
Toluene
Concen: 10.552 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 92 Resp: 202741

Ion	Ratio	Lower	Upper
92	100		
91	174.4	139.2	208.8



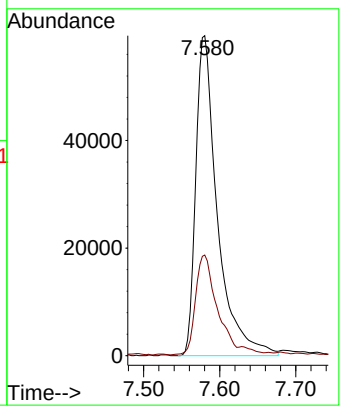


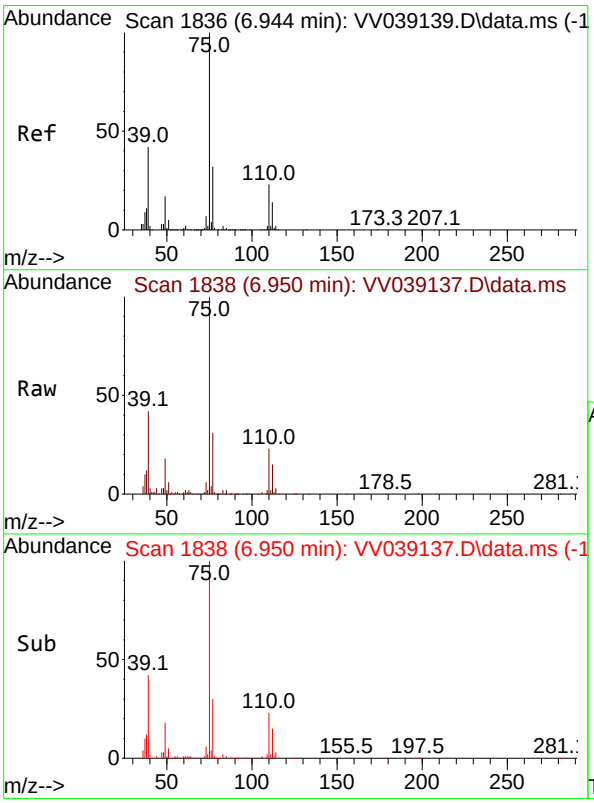
#53
t-1,3-Dichloropropene
Concen: 10.329 ug/l
RT: 7.580 min Scan# 2
Delta R.T. 0.009 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 117314

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.9	38.9

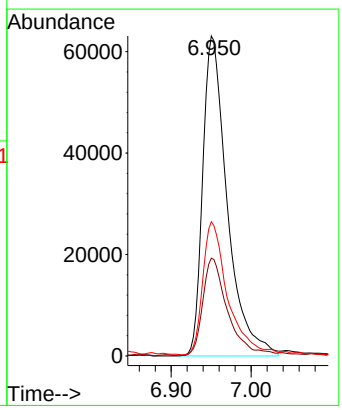


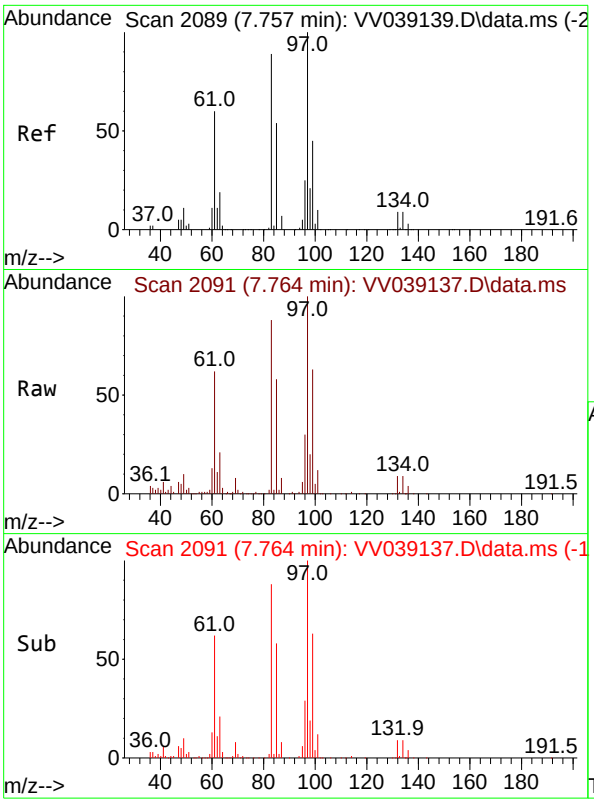


#54
cis-1,3-Dichloropropene
Concen: 10.729 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 134529

Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.5	38.3
39	41.5	33.8	50.6



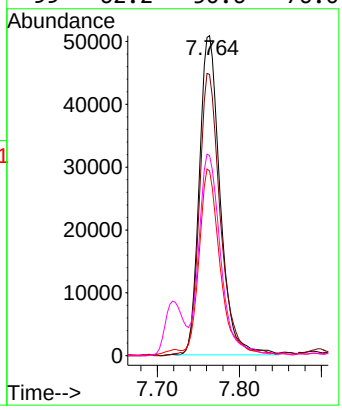


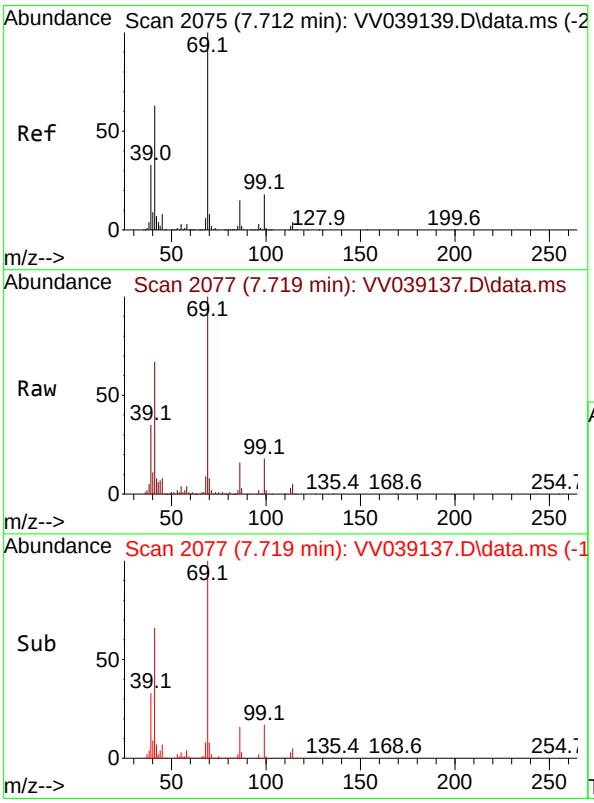
#55
1,1,2-Trichloroethane
Concen: 10.376 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 89390

Ion	Ratio	Lower	Upper
97	100		
83	87.4	71.1	106.7
85	57.3	44.6	67.0
99	62.2	50.6	76.0

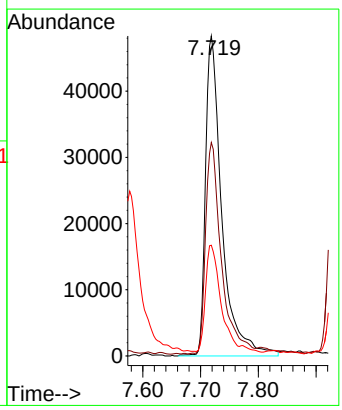


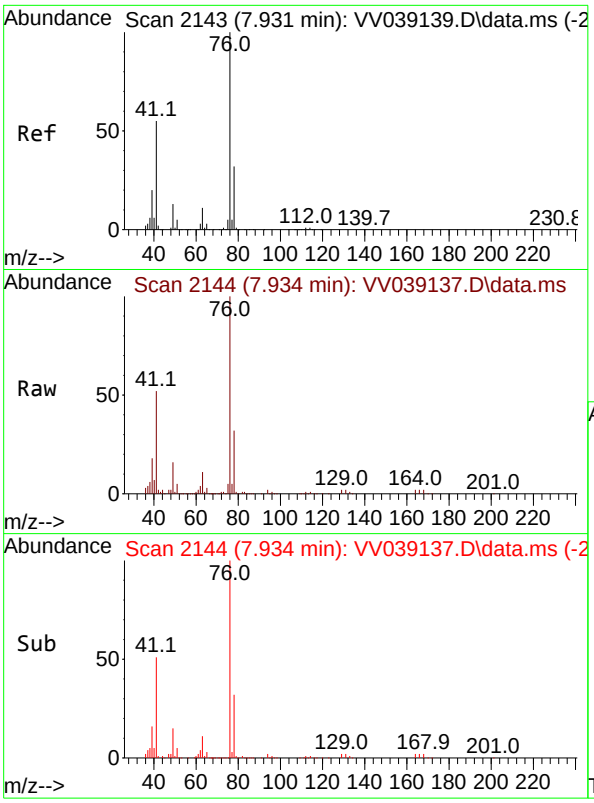


#56
Ethyl methacrylate
Concen: 9.313 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 69 Resp: 95279

Ion	Ratio	Lower	Upper
69	100		
41	63.5	50.7	76.1
39	30.5	26.0	39.0



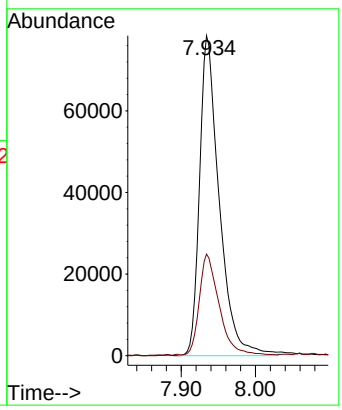


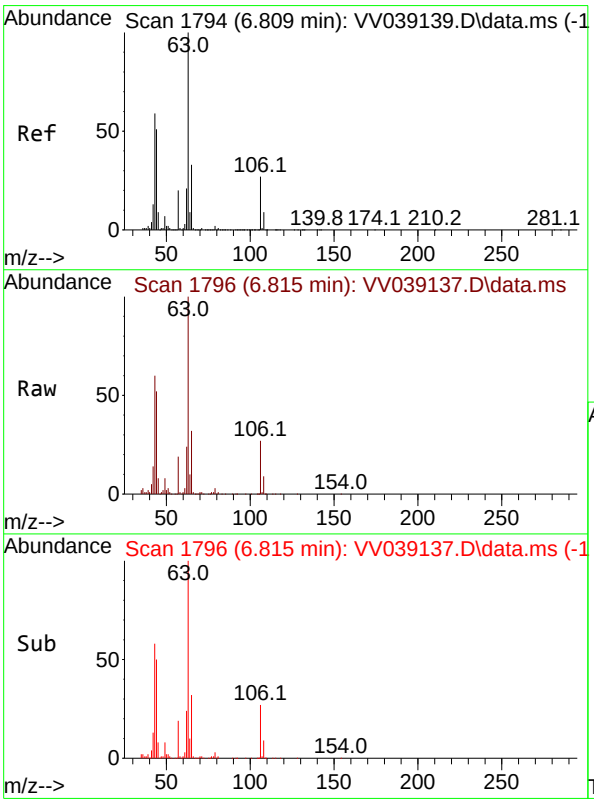
#57
1,3-Dichloropropane
Concen: 10.607 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 144218

Ion	Ratio	Lower	Upper
76	100		
78	31.3	26.1	39.1

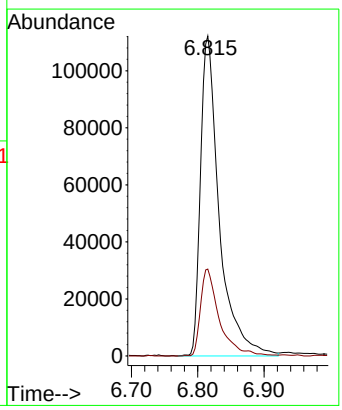


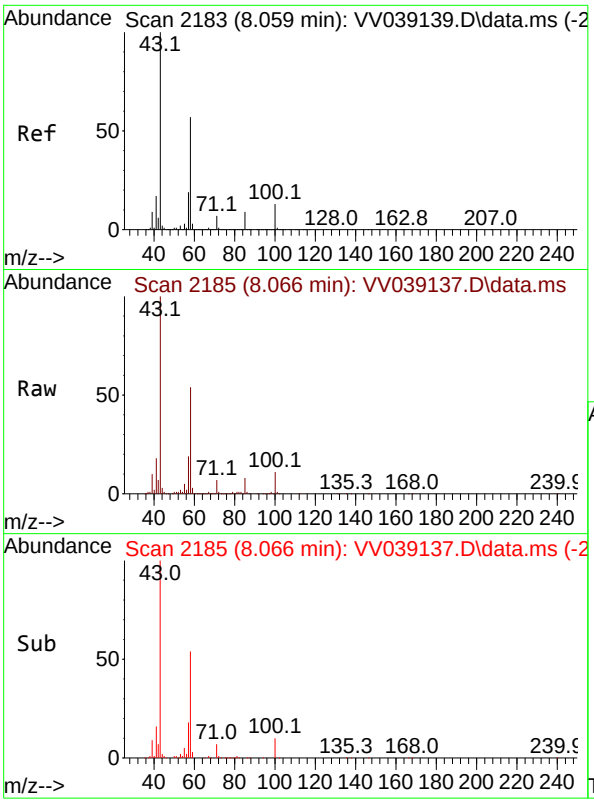


#58
2-Chloroethyl Vinyl ether
Concen: 46.148 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 63 Resp: 220693

Ion	Ratio	Lower	Upper
63	100		
106	27.2	22.1	33.1



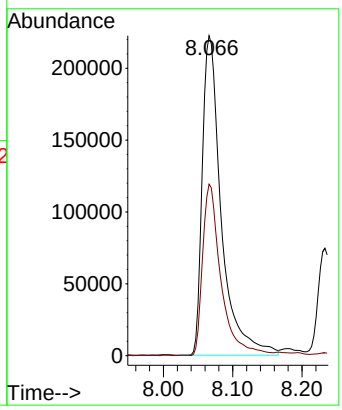


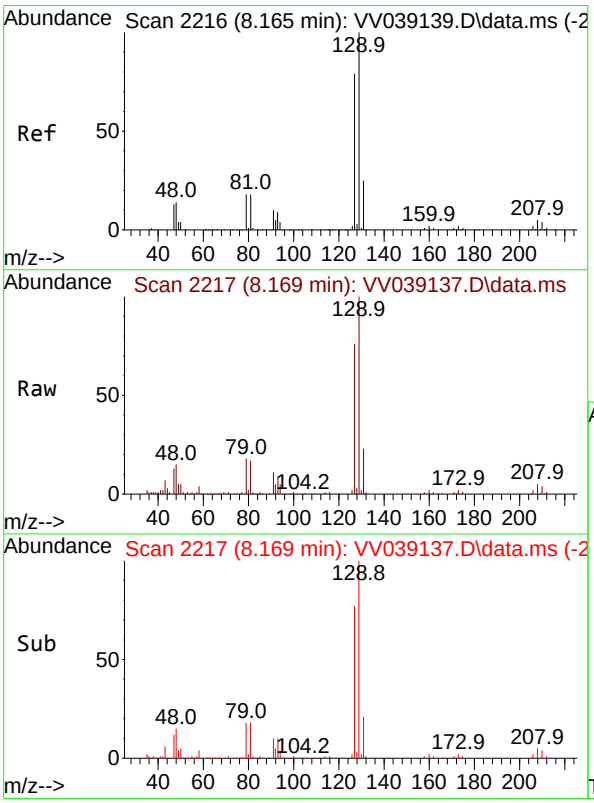
#59
2-Hexanone
Concen: 49.020 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 422703

Ion	Ratio	Lower	Upper
43	100		
58	51.7	28.3	85.0

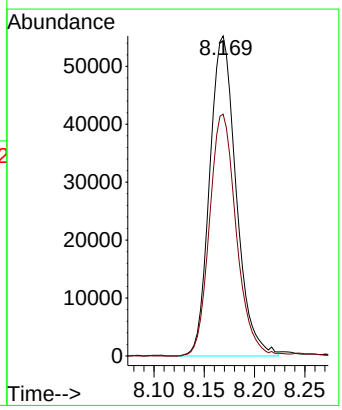


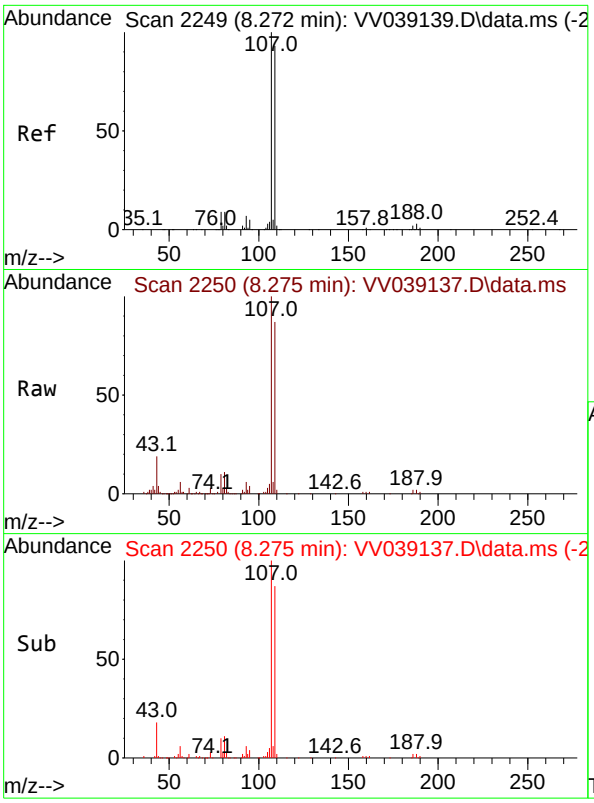


#60
Dibromochloromethane
Concen: 10.313 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:129 Resp: 101236

Ion	Ratio	Lower	Upper
129	100		
127	76.4	39.3	117.9



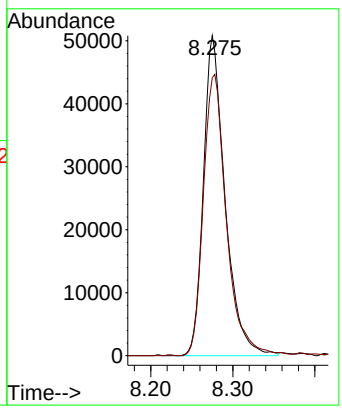


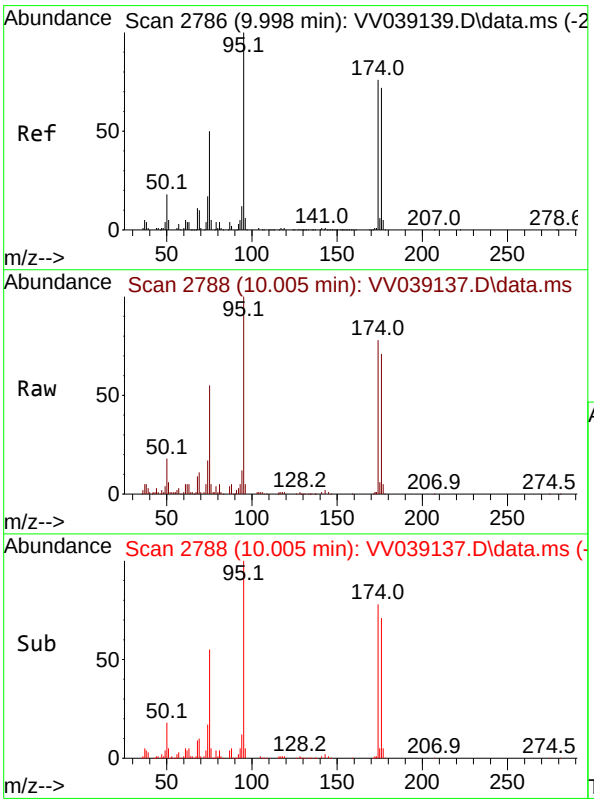
#61
1,2-Dibromoethane
Concen: 10.576 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 93182

Ion	Ratio	Lower	Upper
107	100		
109	93.6	74.6	112.0

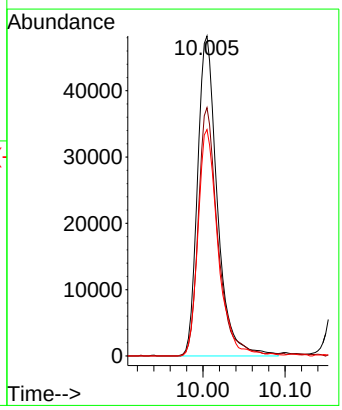


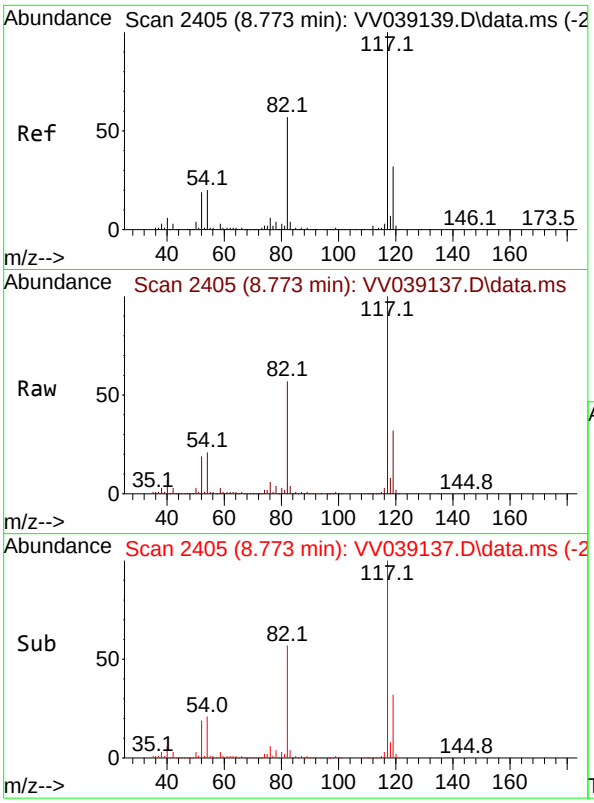


#62
4-Bromofluorobenzene
Concen: 9.902 ug/l
RT: 10.005 min Scan# 2788
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 95 Resp: 80587

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	150.4
176	71.7	0.0	144.2



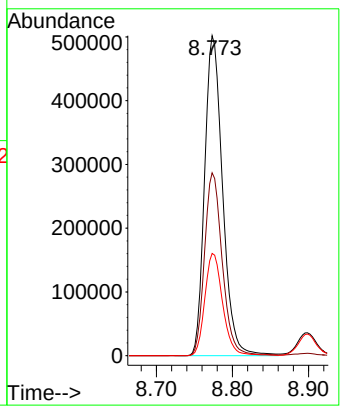


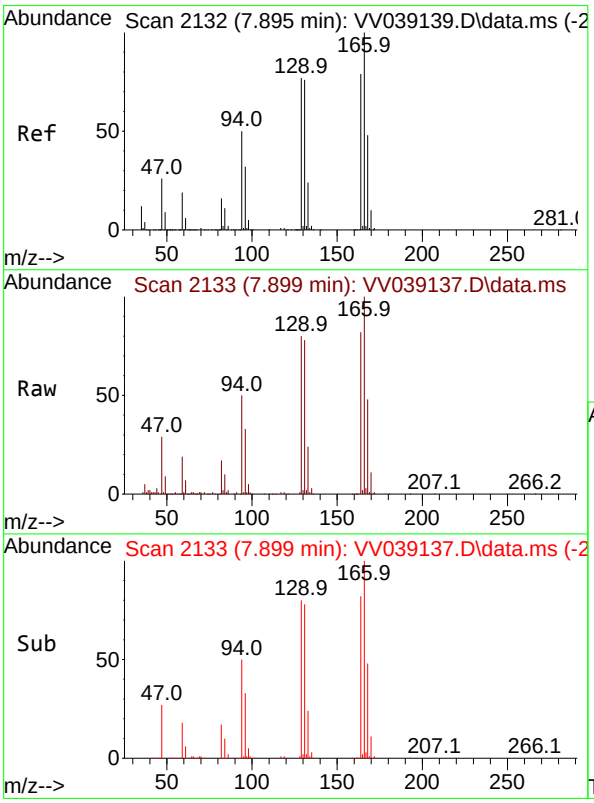
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 824583

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.4	68.2
119	31.9	25.6	38.4

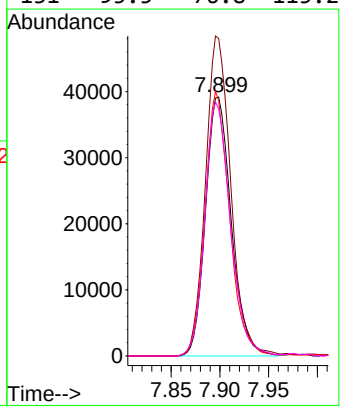


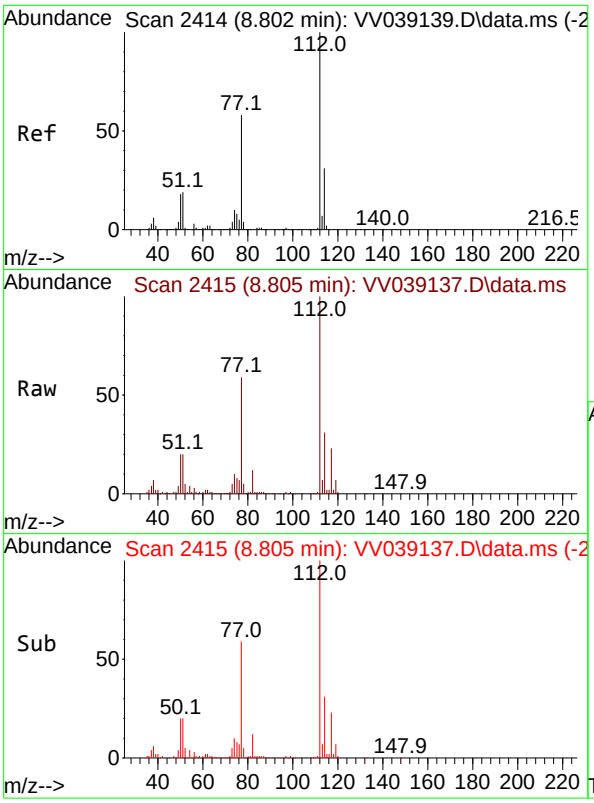


#64
Tetrachloroethene
Concen: 10.397 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:164 Resp: 71811

Ion	Ratio	Lower	Upper
164	100		
166	122.7	101.6	152.4
129	98.7	78.5	117.7
131	95.5	76.8	115.2



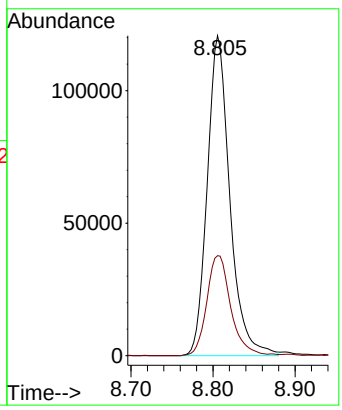


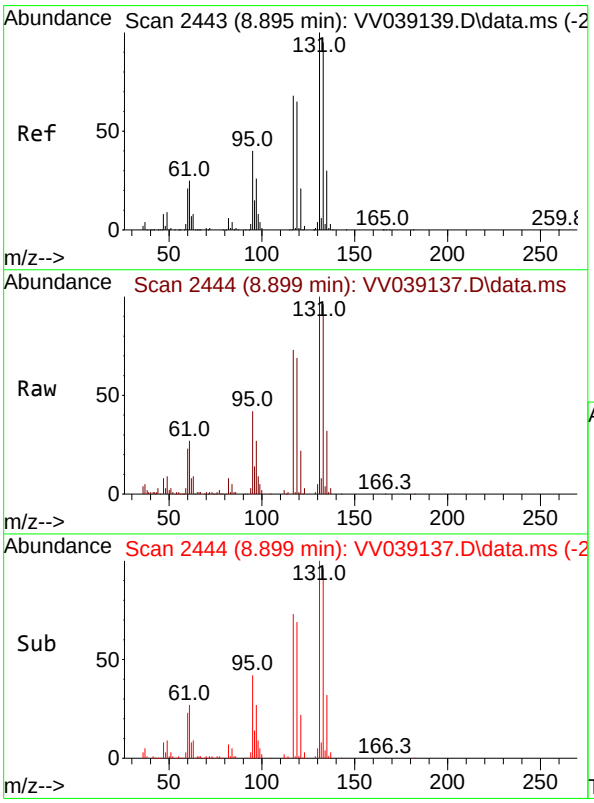
#65
Chlorobenzene
Concen: 10.072 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 231329

Ion	Ratio	Lower	Upper
112	100		
114	31.3	24.6	37.0

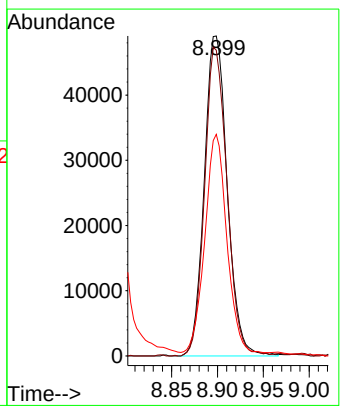


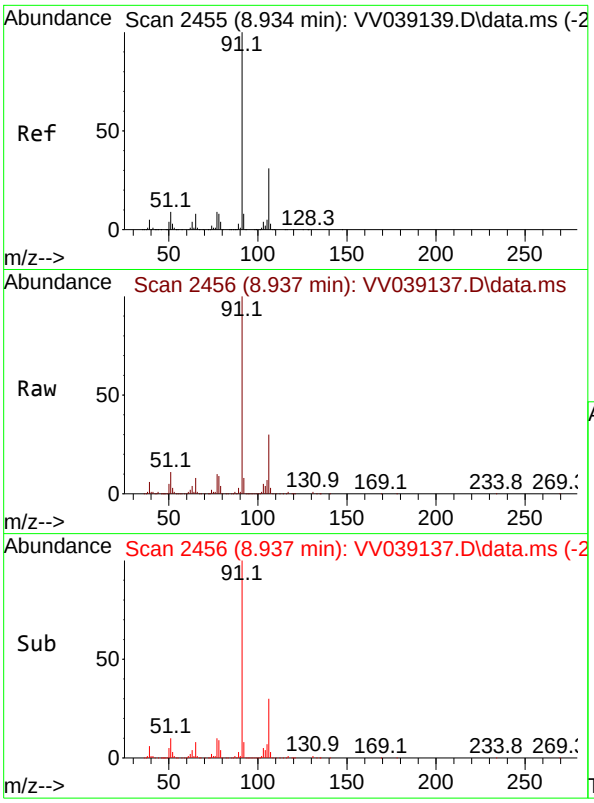


#66
1,1,1,2-Tetrachloroethane
Concen: 10.324 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:131 Resp: 85678

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	65.4	33.3	99.8



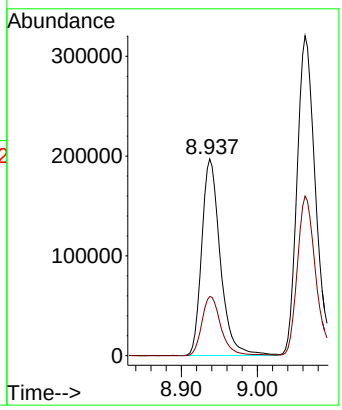


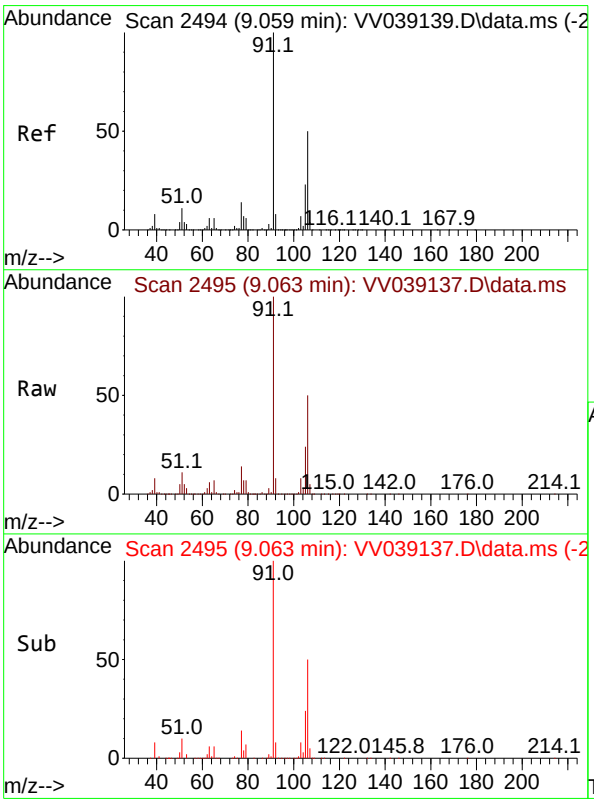
#67
Ethyl Benzene
Concen: 9.618 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 334394

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.6	37.0

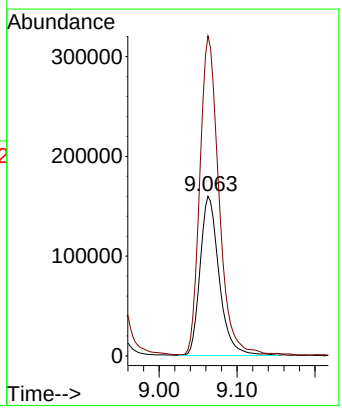


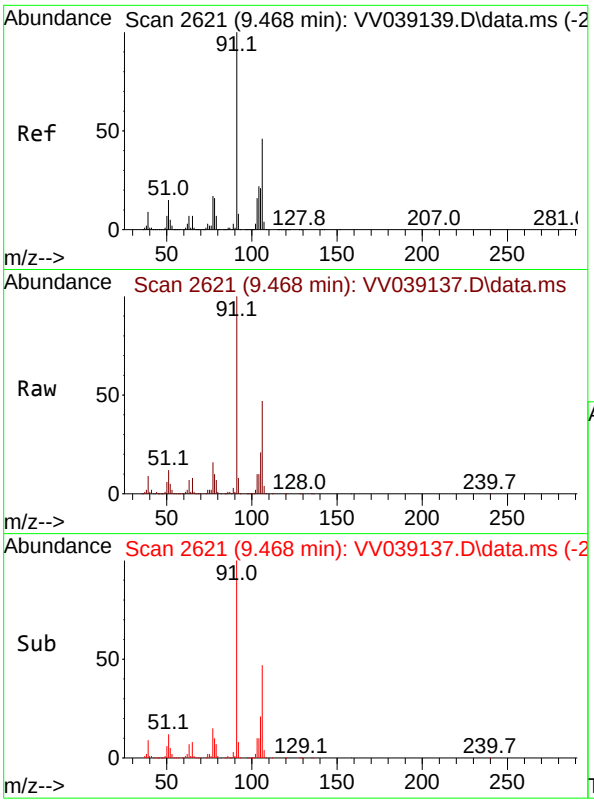


#68
m/p-Xylenes
Concen: 20.155 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:106 Resp: 270452

Ion	Ratio	Lower	Upper
106	100		
91	202.1	162.5	243.7



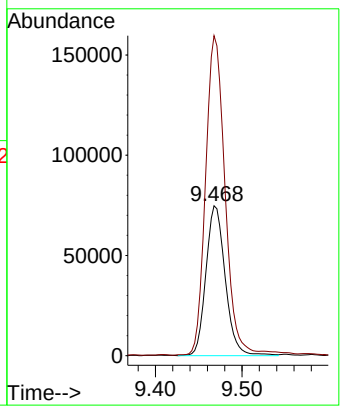


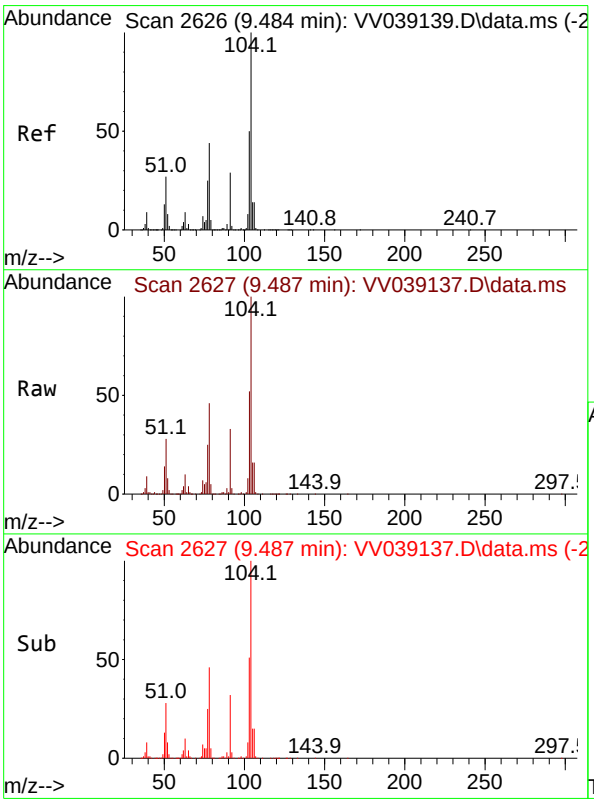
#69
o-Xylene
Concen: 9.756 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 115922

Ion	Ratio	Lower	Upper
106	100		
91	212.5	109.1	327.3

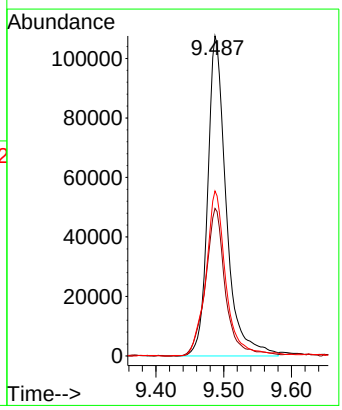


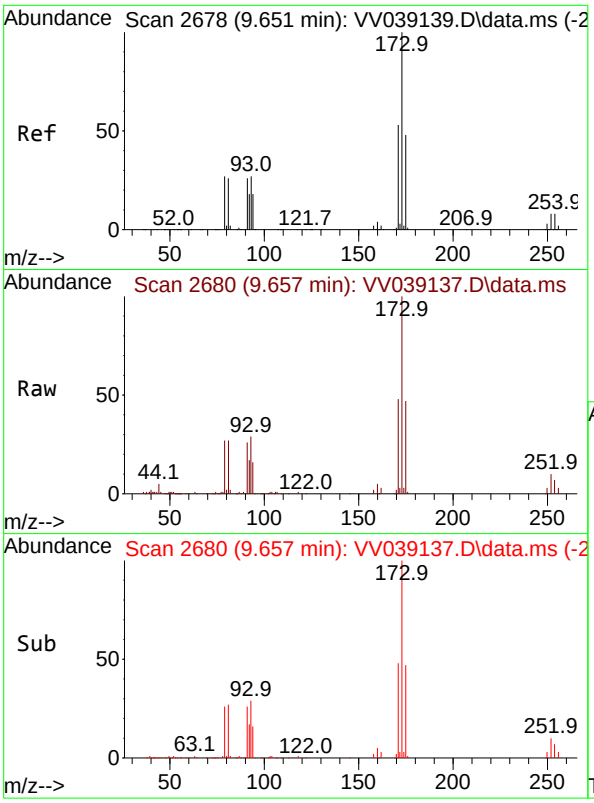


#70
Styrene
Concen: 9.382 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:104 Resp: 204368

Ion	Ratio	Lower	Upper
104	100		
78	49.9	39.8	59.6
103	54.8	43.4	65.2



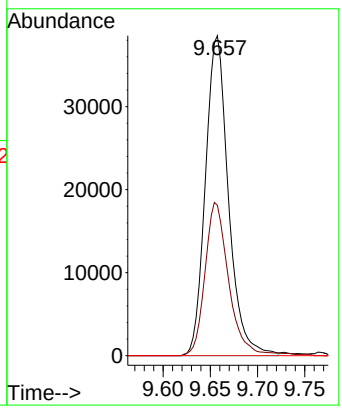


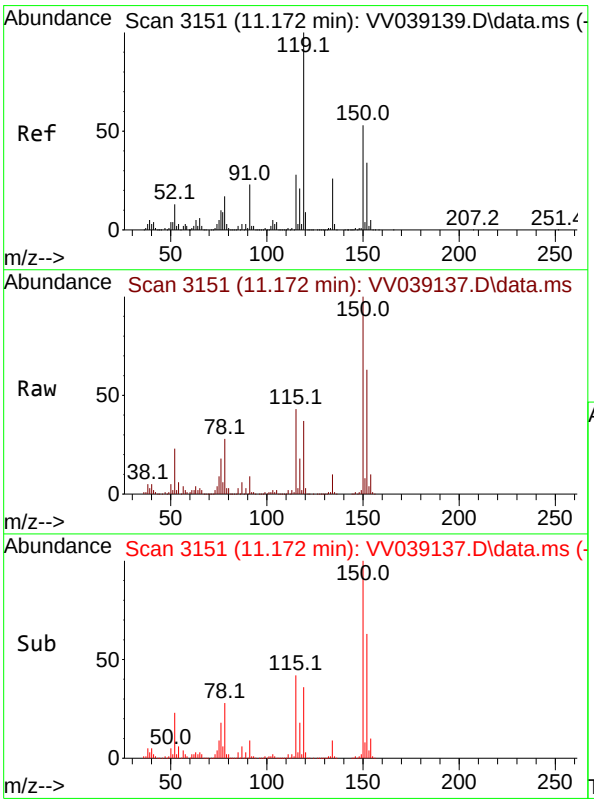
#71
Bromoform
Concen: 10.074 ug/l
RT: 9.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 65302

Ion	Ratio	Lower	Upper
173	100		
175	49.4	23.9	71.7
254	0.0	0.1	0.1#

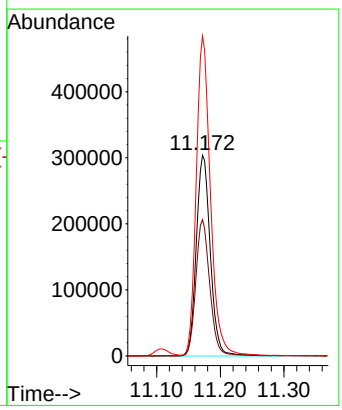


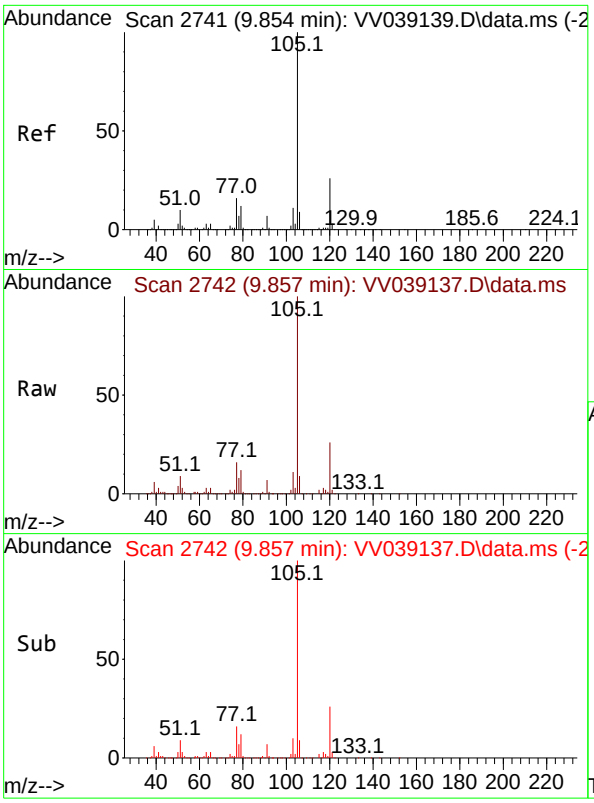


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:152 Resp: 463438

Ion	Ratio	Lower	Upper
152	100		
115	67.6	44.8	134.4
150	161.2	0.0	353.8



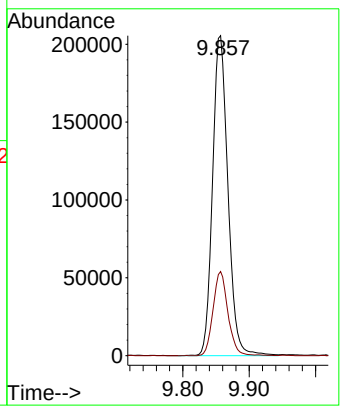


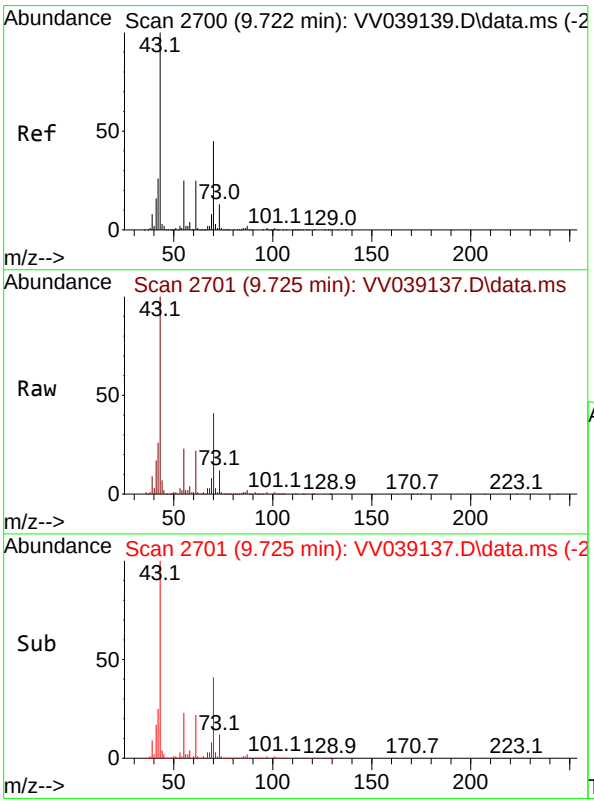
#73
Isopropylbenzene
Concen: 9.827 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 330305

Ion	Ratio	Lower	Upper
105	100		
120	25.5	13.1	39.1

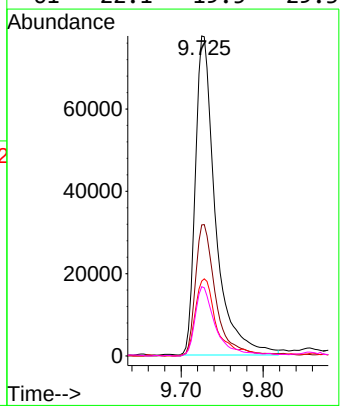


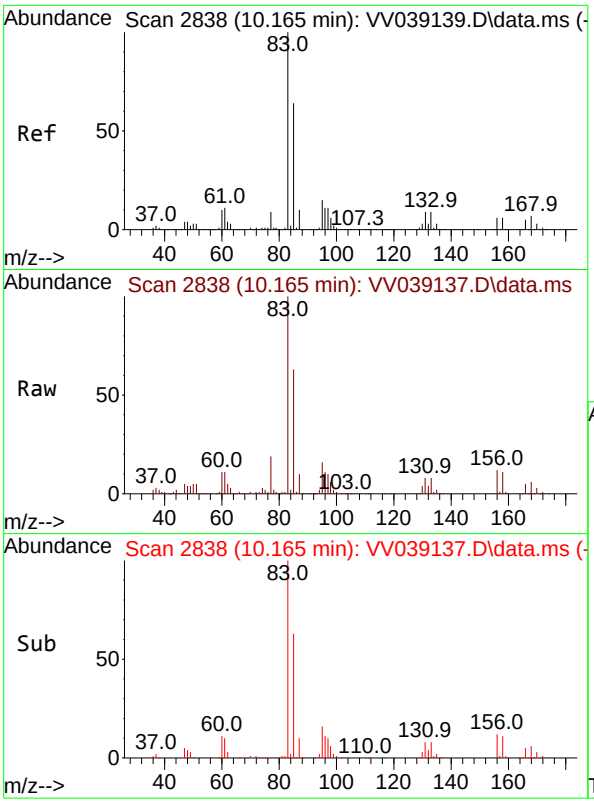


#74
N-amyl acetate
Concen: 9.853 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 132108

Ion	Ratio	Lower	Upper
43	100		
70	41.7	35.4	53.0
55	24.3	20.6	30.8
61	22.1	19.5	29.3



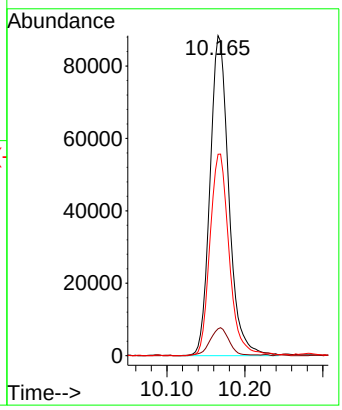


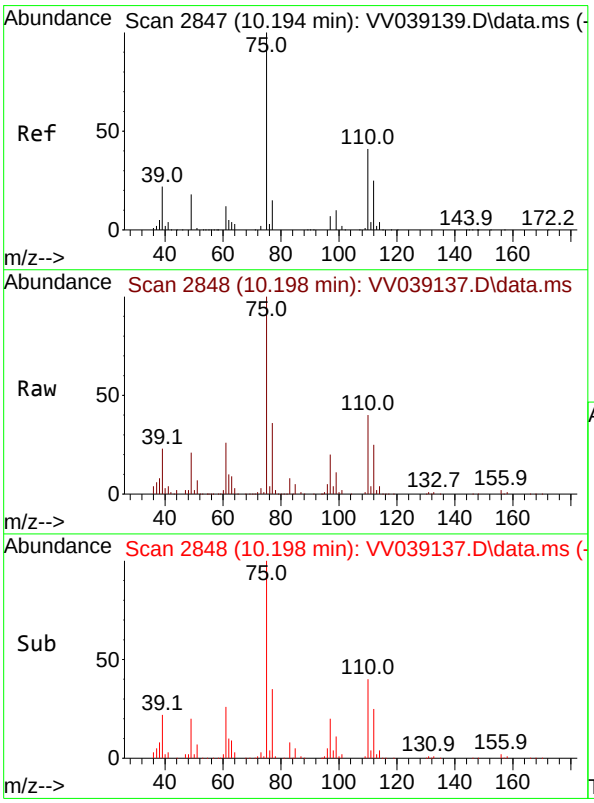
#75
1,1,2,2-Tetrachloroethane
Concen: 10.067 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 148267

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.7
85	64.4	31.9	95.9

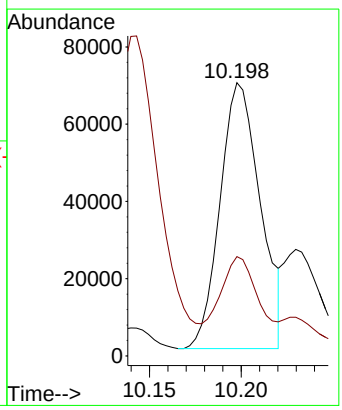


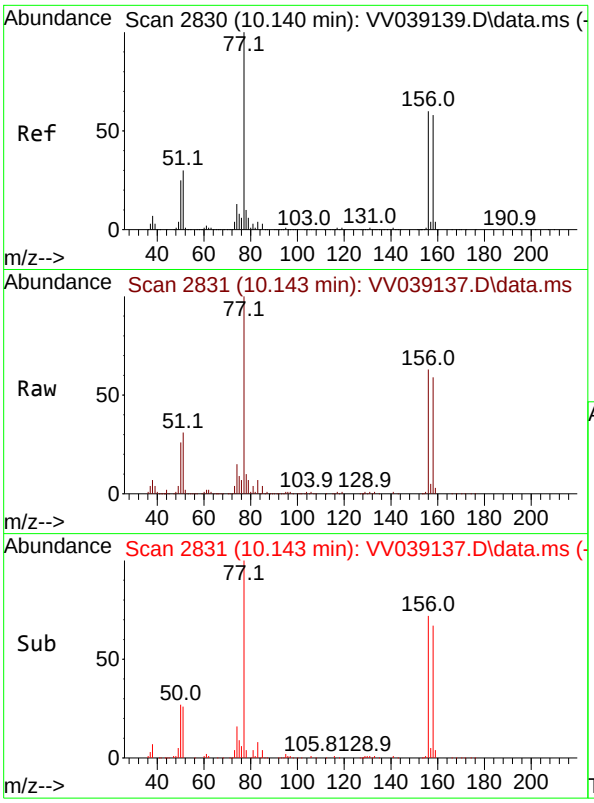


#76
1,2,3-Trichloropropane
Concen: 9.977 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 105275

Ion	Ratio	Lower	Upper
75	100		
77	21.9	11.3	33.8



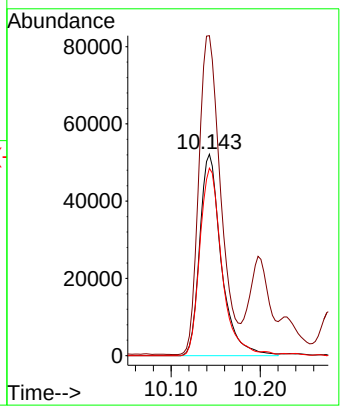


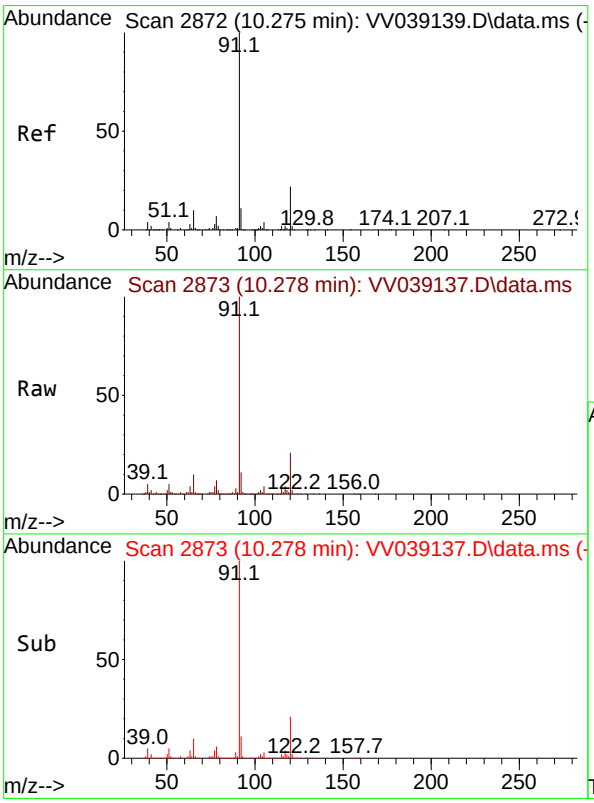
#77
Bromobenzene
Concen: 10.071 ug/l
RT: 10.143 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 87828

Ion	Ratio	Lower	Upper
156	100		
77	160.3	83.4	250.1
158	94.3	48.8	146.4

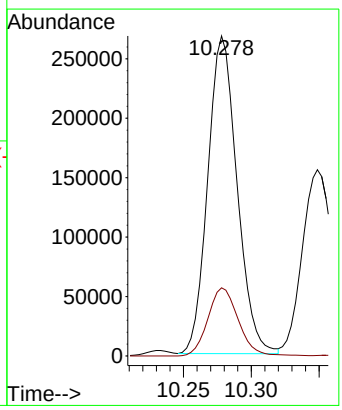


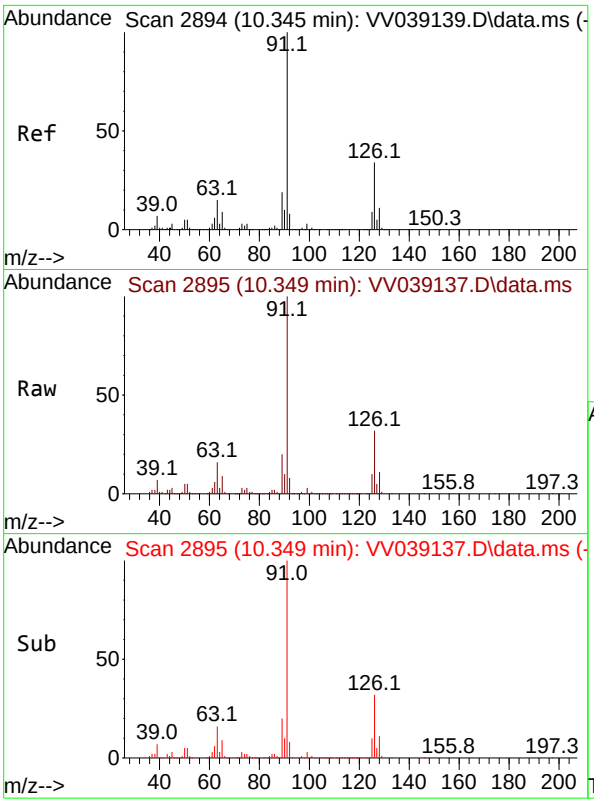


#78
n-propylbenzene
Concen: 9.804 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 91 Resp: 401316

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3



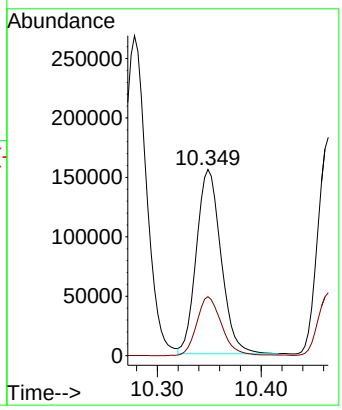


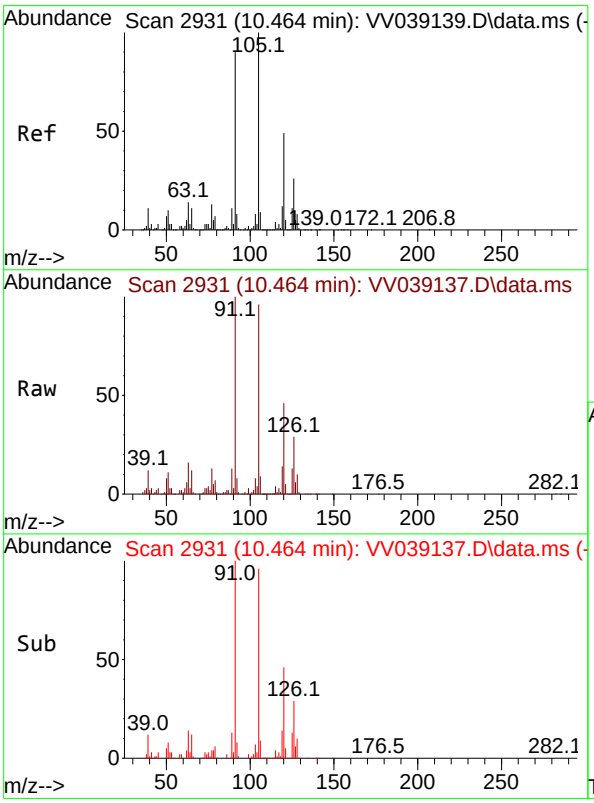
#79
2-Chlorotoluene
Concen: 10.413 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 255053

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.7	50.0

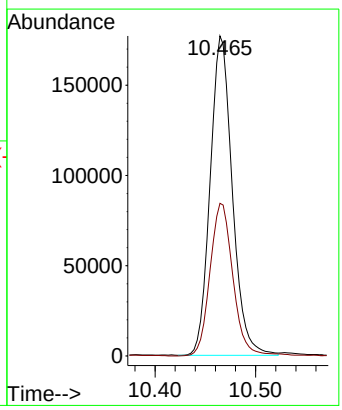


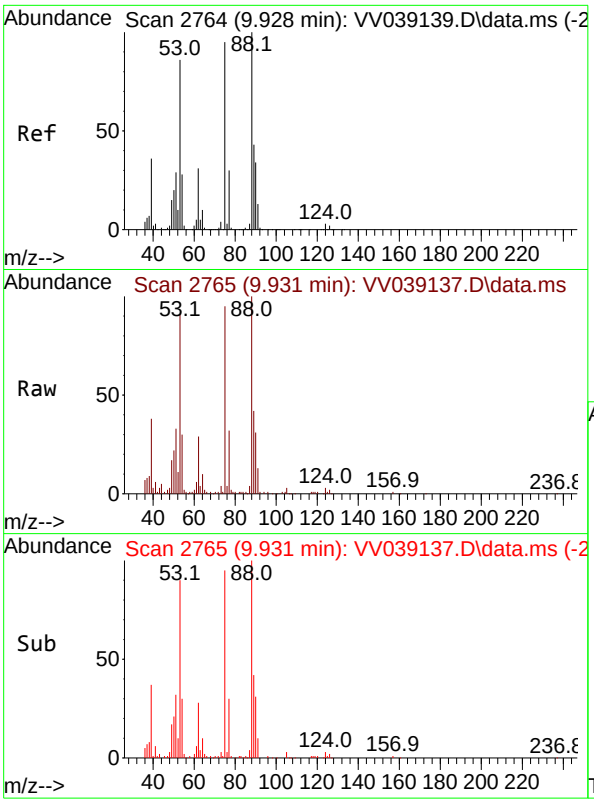


#80
1,3,5-Trimethylbenzene
Concen: 9.699 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:105 Resp: 270977

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.3	72.8



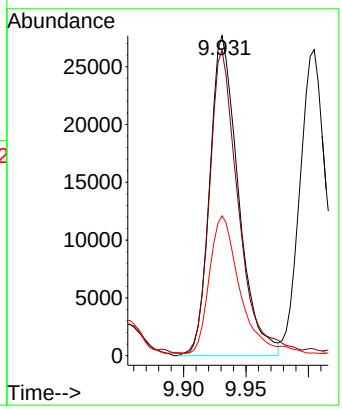


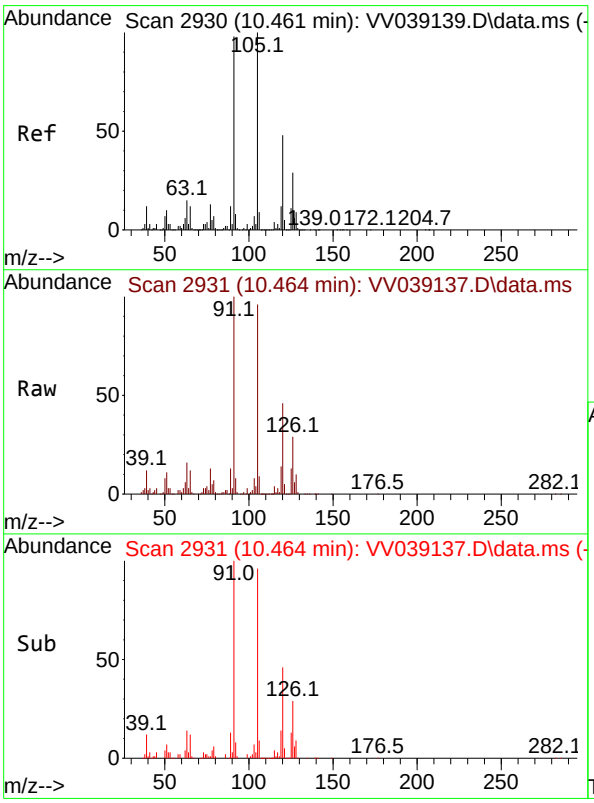
#81
trans-1,4-Dichloro-2-butene
Concen: 10.082 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 44314

Ion	Ratio	Lower	Upper
75	100		
53	94.1	72.5	108.7
89	45.9	37.2	55.8

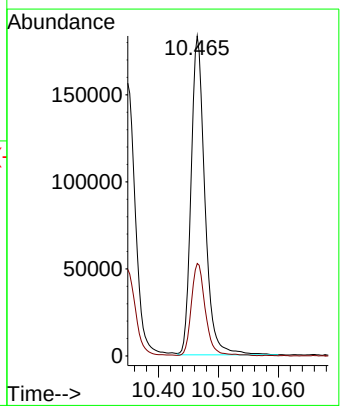


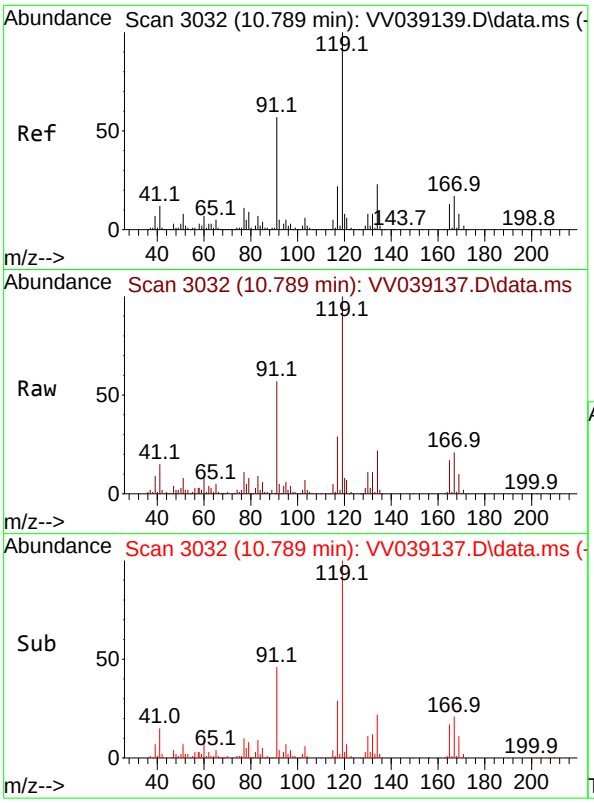


#82
4-Chlorotoluene
Concen: 10.312 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 91 Resp: 292863

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.6



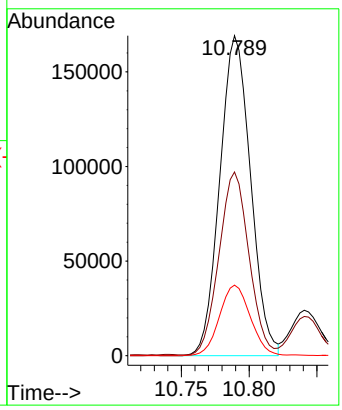


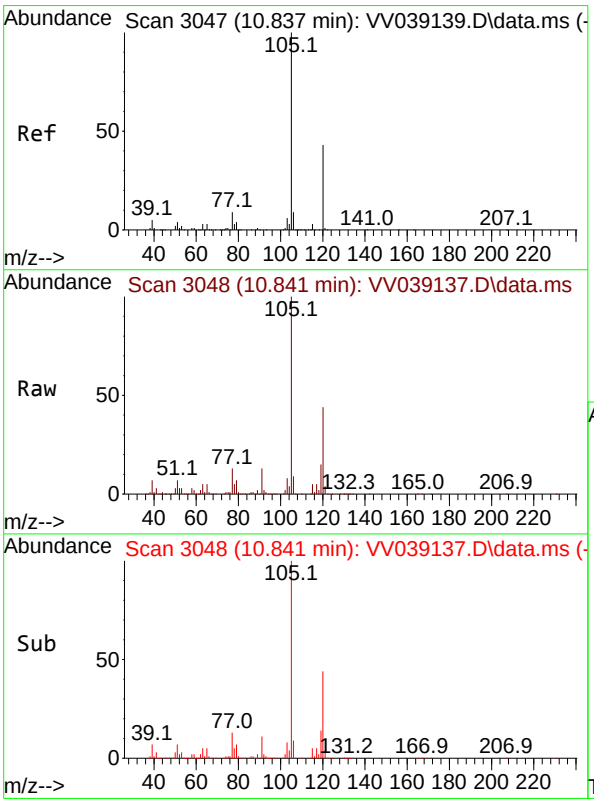
#83
tert-Butylbenzene
Concen: 9.603 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 267528

Ion	Ratio	Lower	Upper
119	100		
91	55.4	28.5	85.6
134	22.1	11.5	34.4

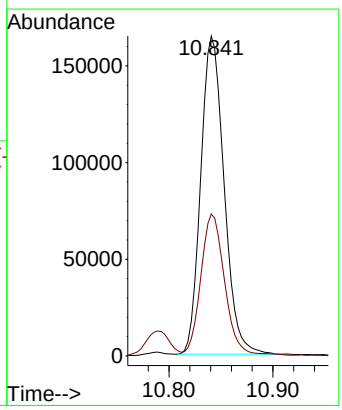


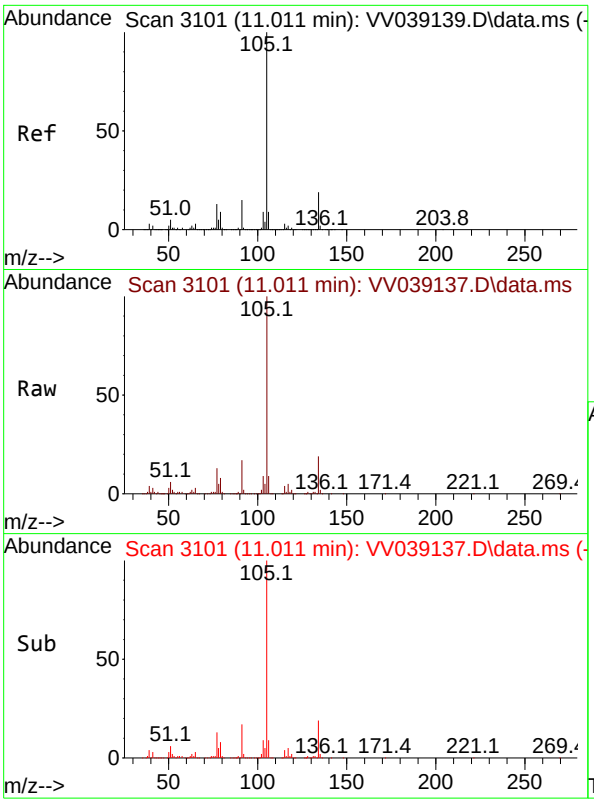


#84
1,2,4-Trimethylbenzene
Concen: 9.457 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:105 Resp: 256505

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.4	67.2



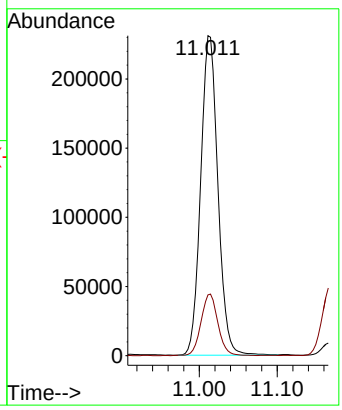


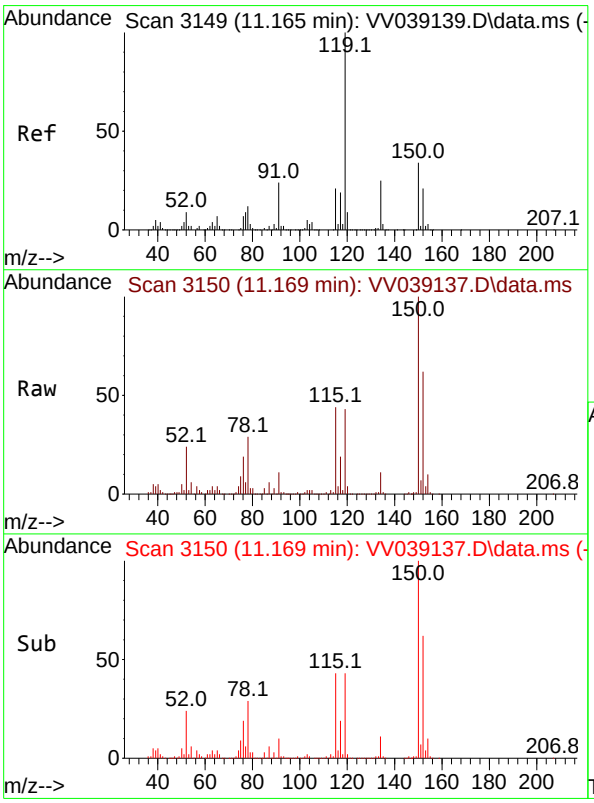
#85
sec-Butylbenzene
Concen: 9.588 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 354312

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.6	28.8

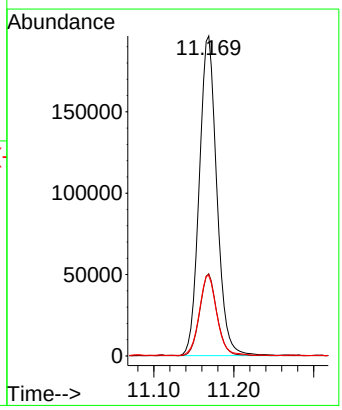


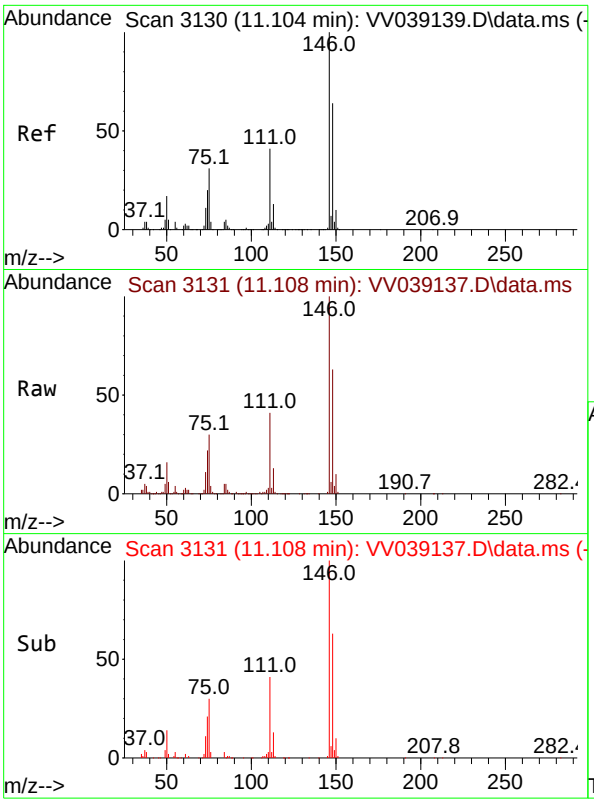


#86
p-Isopropyltoluene
Concen: 9.755 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:119 Resp: 300032

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.7	38.0
91	25.2	12.0	36.1



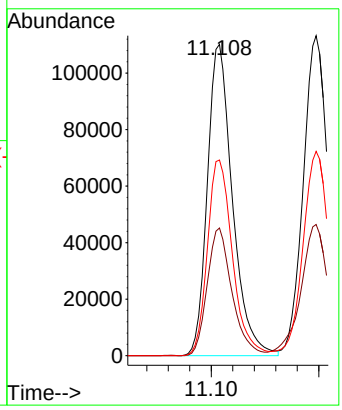


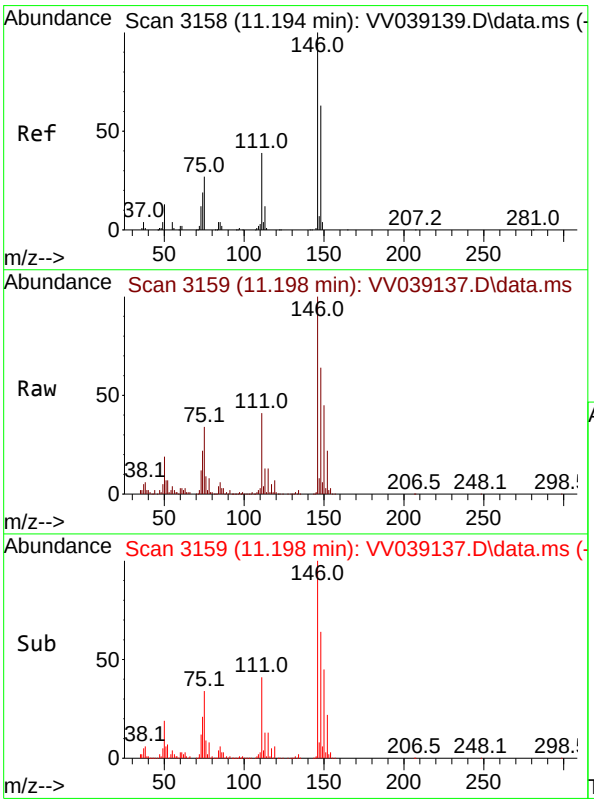
#87
1,3-Dichlorobenzene
Concen: 10.141 ug/l
RT: 11.108 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 178990

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.9	62.8
148	62.8	31.8	95.3

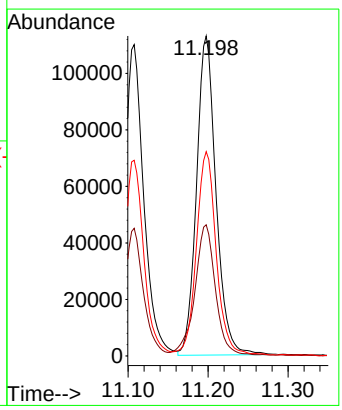


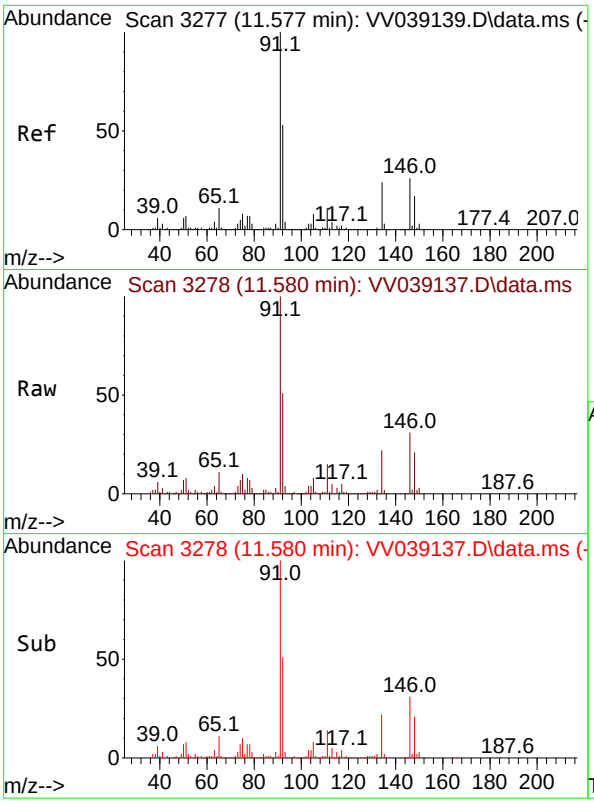


#88
1,4-Dichlorobenzene
Concen: 9.835 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:146 Resp: 191843

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.3	60.8
148	65.1	31.4	94.2



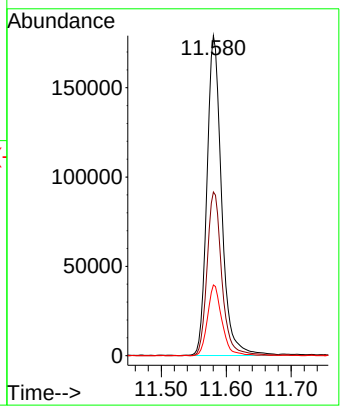


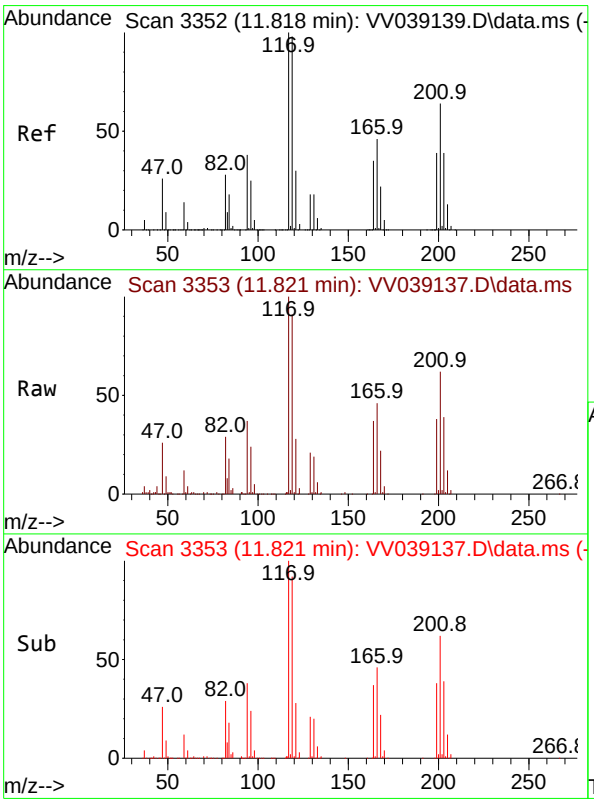
#89
n-Butylbenzene
Concen: 9.575 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 281258

Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.6	79.8
134	21.7	12.1	36.3

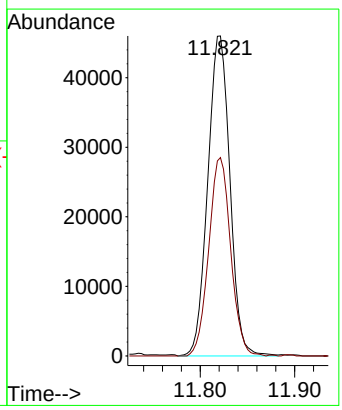


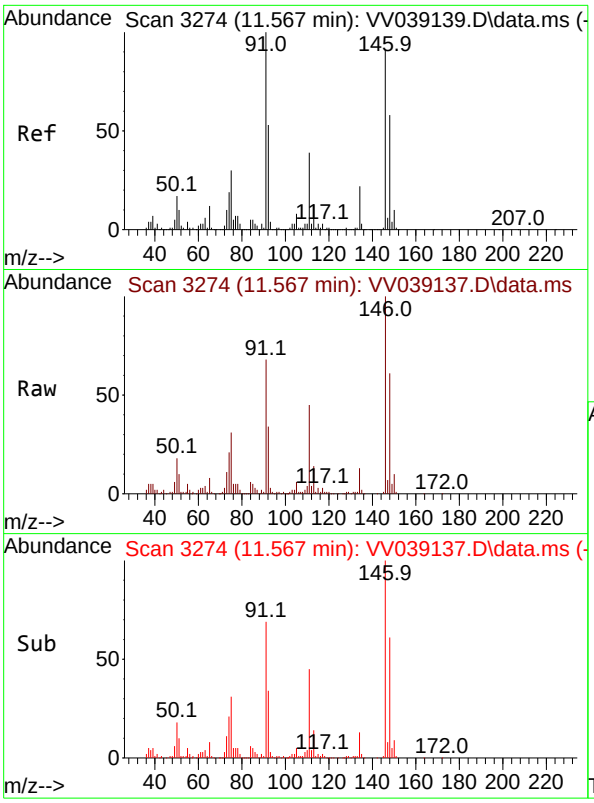


#90
Hexachloroethane
Concen: 9.891 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:117 Resp: 74910

Ion	Ratio	Lower	Upper
117	100		
201	61.4	32.3	96.8



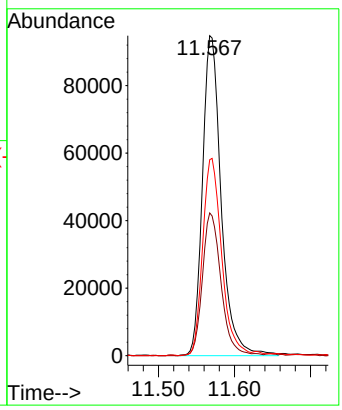


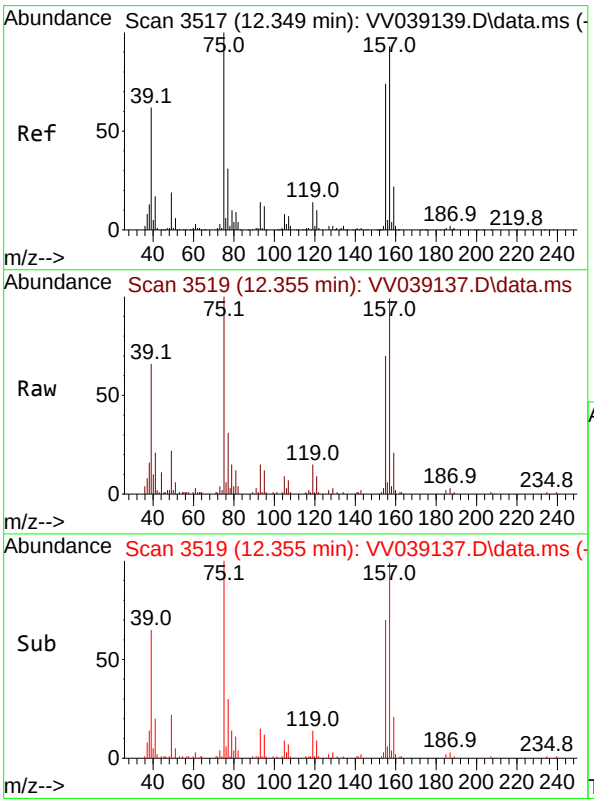
#91
1,2-Dichlorobenzene
Concen: 9.841 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 162271

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.5	64.5
148	62.3	31.9	95.7

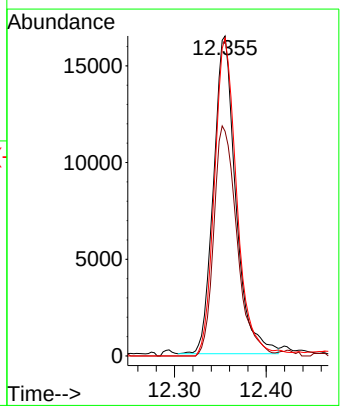


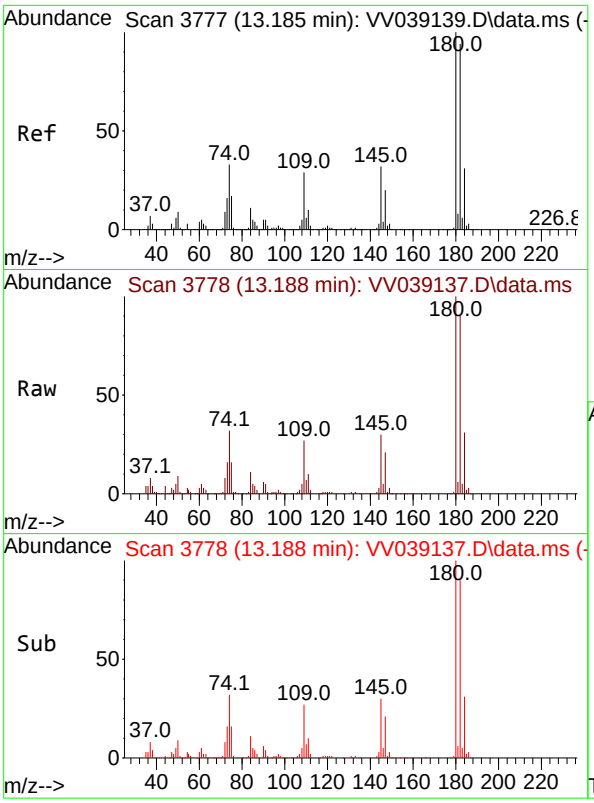


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.167 ug/l
RT: 12.355 min Scan# 3519
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 27674

Ion	Ratio	Lower	Upper
75	100		
155	75.5	38.6	115.8
157	100.7	49.5	148.3



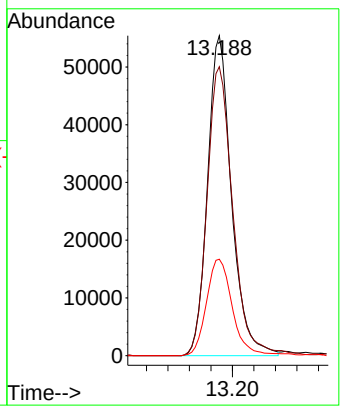


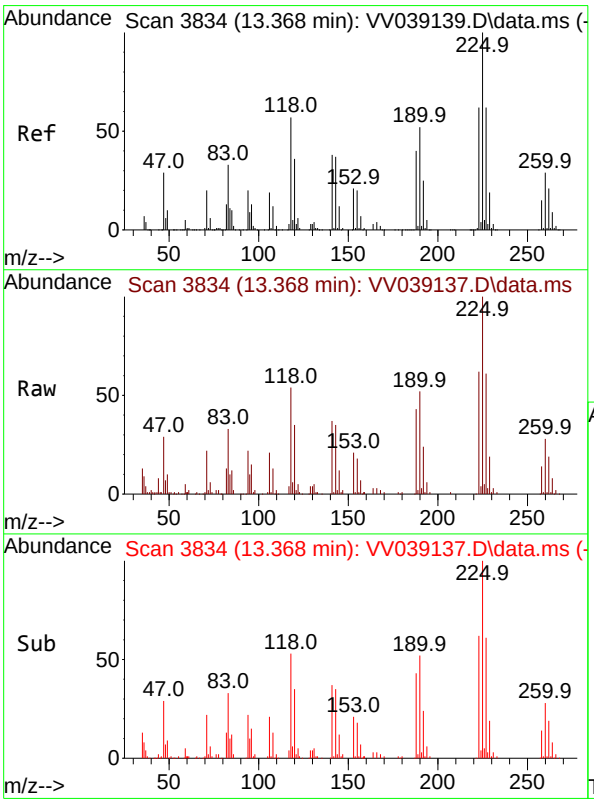
#93
1,2,4-Trichlorobenzene
Concen: 9.096 ug/l
RT: 13.188 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 85982

Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.1	141.4
145	32.7	16.3	48.8

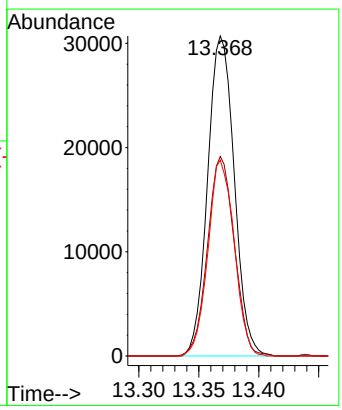


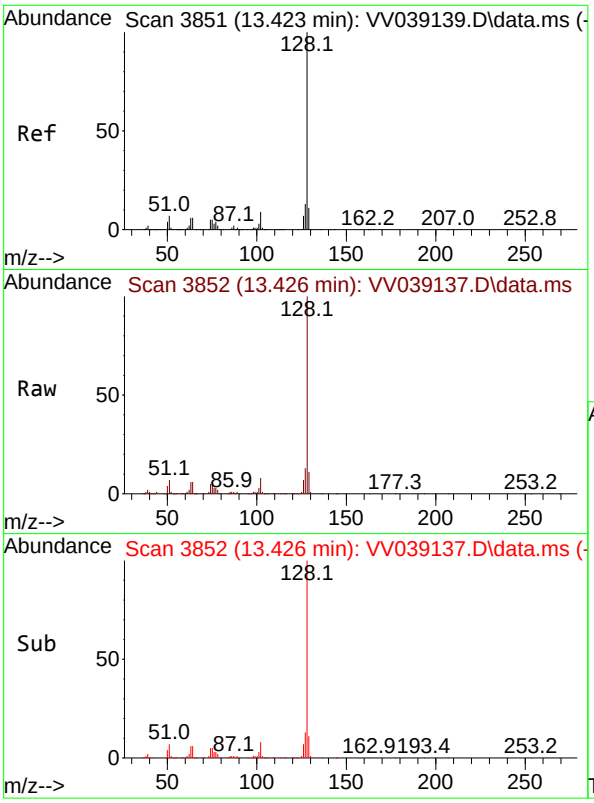


#94
Hexachlorobutadiene
Concen: 9.653 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:225 Resp: 47413

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.6	94.7
227	60.2	31.8	95.4



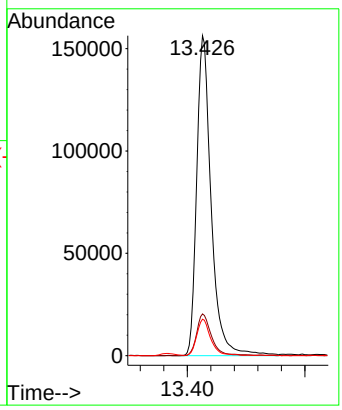


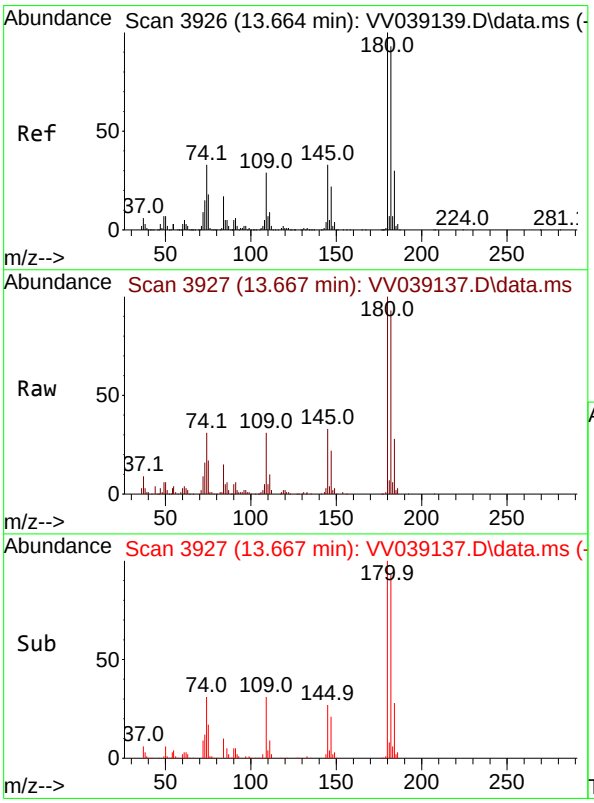
#95
Naphthalene
Concen: 8.803 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 267645

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	10.8	8.6	13.0

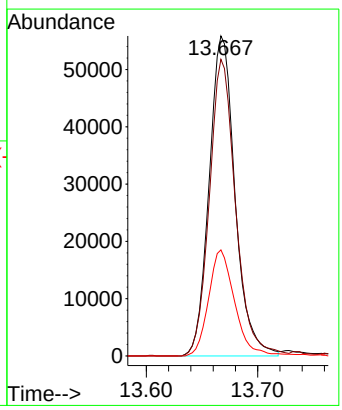




#96
1,2,3-Trichlorobenzene
Concen: 9.334 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:180 Resp: 90238

Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.9	140.8
145	33.7	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	545775	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	880963	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	860340	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	509460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.947	65	144689	18.317	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	36.640%#		
35) Dibromofluoromethane	4.503	113	134662	19.014	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	38.020%#		
50) Toluene-d8	7.236	98	384827	18.501	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	37.000%#		
62) 4-Bromofluorobenzene	10.002	95	163597	19.105	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	38.220%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	165175	19.118	ug/l	96
3) Chloromethane	1.230	50	177694	19.159	ug/l	99
4) Vinyl Chloride	1.298	62	186887	18.822	ug/l	99
5) Bromomethane	1.500	94	119578	19.104	ug/l	98
6) Chloroethane	1.561	64	124021	19.935	ug/l	99
7) Trichlorofluoromethane	1.729	101	273532	19.027	ug/l	100
8) Diethyl Ether	1.921	74	100661	18.862	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.085	101	159719	18.673	ug/l	99
10) Methyl Iodide	2.198	142	161932	19.880	ug/l	99
11) Tert butyl alcohol	2.568	59	171137	102.509	ug/l	98
12) 1,1-Dichloroethene	2.085	96	157427	19.131	ug/l	97
13) Acrolein	2.011	56	29609	102.210	ug/l	97
14) Allyl chloride	2.359	41	280200	19.062	ug/l	99
15) Acrylonitrile	2.674	53	504022	94.179	ug/l	99
16) Acetone	2.121	43	499669	95.756	ug/l	99
17) Carbon Disulfide	2.253	76	476229	18.923	ug/l	100
18) Methyl Acetate	2.381	43	226208	19.328	ug/l	98
19) Methyl tert-butyl Ether	2.712	73	498918	19.027	ug/l	99
20) Methylene Chloride	2.458	84	185050	20.143	ug/l	97
21) trans-1,2-Dichloroethene	2.703	96	164898	18.823	ug/l	97
22) Diisopropyl ether	3.217	45	552331	19.640	ug/l	83
23) Vinyl Acetate	3.191	43	2445787	99.414	ug/l	100
24) 1,1-Dichloroethane	3.118	63	320146	18.615	ug/l	99
25) 2-Butanone	3.870	43	637413	102.519	ug/l	100
26) 2,2-Dichloropropane	3.812	77	278362	18.326	ug/l	98
27) cis-1,2-Dichloroethene	3.822	96	183867	19.031	ug/l	98
28) Bromochloromethane	4.146	49	164406	21.654	ug/l	99
29) Tetrahydrofuran	4.240	42	405777	102.491	ug/l	99
30) Chloroform	4.281	83	342700	19.083	ug/l	99
31) Cyclohexane	4.587	56	266753	18.934	ug/l	98
32) 1,1,1-Trichloroethane	4.516	97	288341	18.546	ug/l	99
36) 1,1-Dichloropropene	4.748	75	212835	19.734	ug/l	99
37) Ethyl Acetate	3.979	43	260591	19.696	ug/l	97
38) Carbon Tetrachloride	4.735	117	250103	19.252	ug/l	98
39) Methylcyclohexane	6.047	83	253693	19.619	ug/l	95
40) Benzene	5.011	78	697141	19.994	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.169	41	102755	18.721	ug/l		95
42) 1,2-Dichloroethane	5.043	62	244487	20.012	ug/l		99
43) Isopropyl Acetate	5.195	43	362512	19.889	ug/l		98
44) Trichloroethene	5.831	130	160692	19.972	ug/l		96
45) 1,2-Dichloropropane	6.092	63	182757	21.087	ug/l		96
46) Dibromomethane	6.227	93	129319	19.495	ug/l		98
47) Bromodichloromethane	6.429	83	269262	19.635	ug/l		97
48) Methyl methacrylate	6.301	41	158251	18.977	ug/l		99
49) 1,4-Dioxane	6.294	88	47860	365.172	ug/l	#	85
51) 4-Methyl-2-Pentanone	7.150	43	1296796	111.268	ug/l		98
52) Toluene	7.310	92	422367	20.892	ug/l		100
53) t-1,3-Dichloropropene	7.577	75	245181	20.516	ug/l		98
54) cis-1,3-Dichloropropene	6.950	75	273906	20.761	ug/l		100
55) 1,1,2-Trichloroethane	7.760	97	176812	19.505	ug/l		98
56) Ethyl methacrylate	7.719	69	212320	19.723	ug/l		97
57) 1,3-Dichloropropane	7.934	76	291304	20.363	ug/l		100
58) 2-Chloroethyl Vinyl ether	6.815	63	536254	94.274	ug/l		99
59) 2-Hexanone	8.066	43	940265	101.225	ug/l		98
60) Dibromochloromethane	8.169	129	200793	19.440	ug/l		99
61) 1,2-Dibromoethane	8.275	107	189555	20.447	ug/l		99
64) Tetrachloroethene	7.899	164	141876	19.688	ug/l		99
65) Chlorobenzene	8.805	112	470841	19.648	ug/l		97
66) 1,1,1,2-Tetrachloroethane	8.899	131	167936	19.395	ug/l		99
67) Ethyl Benzene	8.937	91	737391	20.328	ug/l		99
68) m/p-Xylenes	9.063	106	607362	43.381	ug/l		99
69) o-Xylene	9.468	106	255212	20.587	ug/l		100
70) Styrene	9.487	104	475382	19.022	ug/l		99
71) Bromoform	9.654	173	132242	19.552	ug/l		98
73) Isopropylbenzene	9.857	105	741305	20.062	ug/l		99
74) N-amyl acetate	9.725	43	306963	20.826	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.165	83	297741	18.390	ug/l		100
76) 1,2,3-Trichloropropane	10.198	75	213532	18.409	ug/l		99
77) Bromobenzene	10.140	156	187188	19.525	ug/l		96
78) n-propylbenzene	10.278	91	905281	20.118	ug/l		99
79) 2-Chlorotoluene	10.349	91	547836	20.346	ug/l		99
80) 1,3,5-Trimethylbenzene	10.464	105	640175	20.843	ug/l		99
81) trans-1,4-Dichloro-2-b...	9.928	75	91848	19.009	ug/l		96
82) 4-Chlorotoluene	10.461	91	655427	20.993	ug/l		99
83) tert-Butylbenzene	10.789	119	587151	19.172	ug/l		99
84) 1,2,4-Trimethylbenzene	10.841	105	631679	21.185	ug/l		100
85) sec-Butylbenzene	11.011	105	808869	19.912	ug/l		99
86) p-Isopropyltoluene	11.165	119	682814	20.196	ug/l		100
87) 1,3-Dichlorobenzene	11.104	146	374208	19.287	ug/l		99
88) 1,4-Dichlorobenzene	11.198	146	397526	18.539	ug/l		100
89) n-Butylbenzene	11.580	91	640044	19.822	ug/l		99
90) Hexachloroethane	11.818	117	150843	18.118	ug/l		99
91) 1,2-Dichlorobenzene	11.567	146	336566	18.567	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.352	75	57671	19.989	ug/l		98
93) 1,2,4-Trichlorobenzene	13.185	180	196334	18.894	ug/l		99
94) Hexachlorobutadiene	13.368	225	96610	17.893	ug/l		98
95) Naphthalene	13.426	128	634557	18.986	ug/l		99
96) 1,2,3-Trichlorobenzene	13.667	180	198308	18.659	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

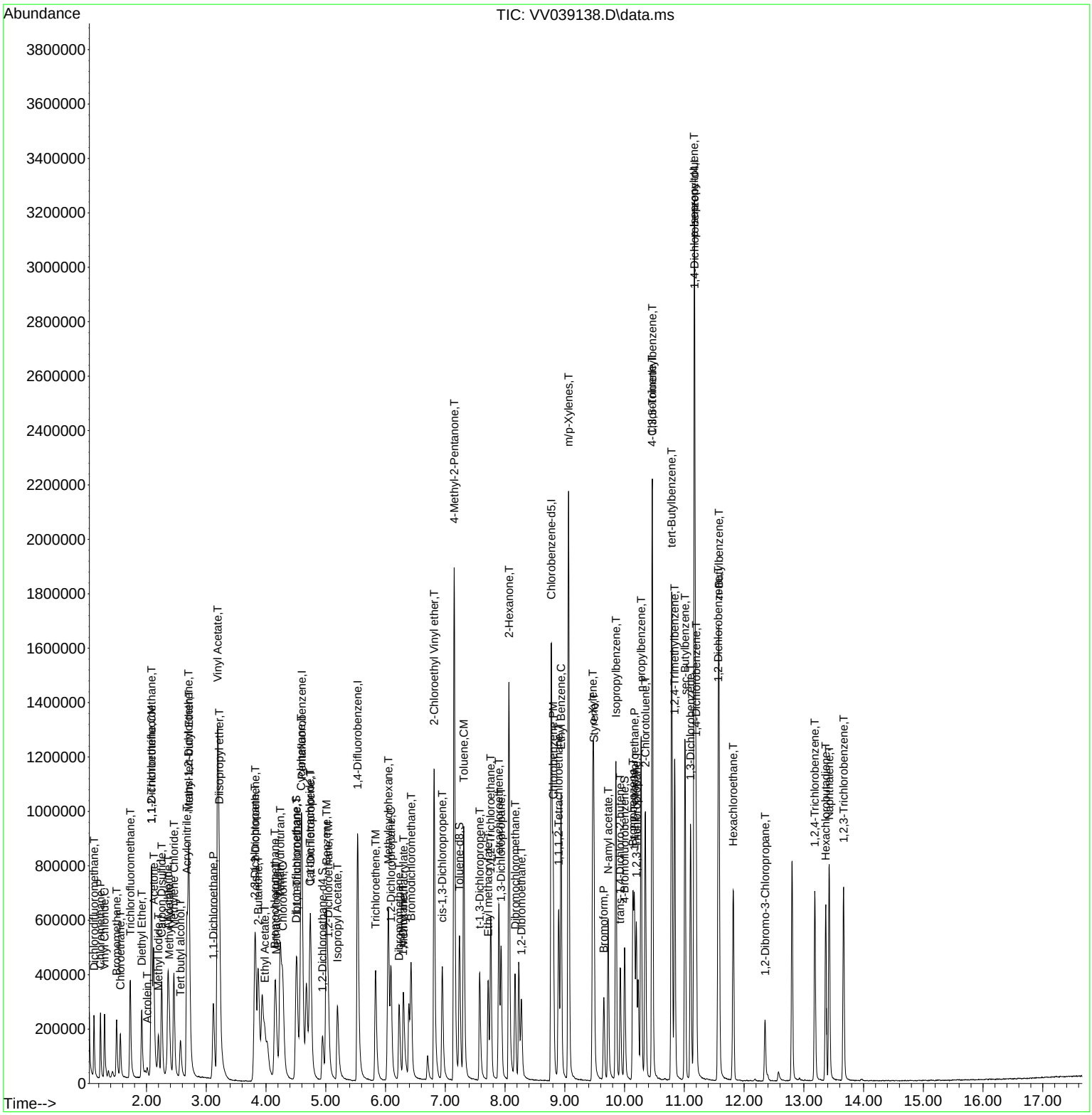
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

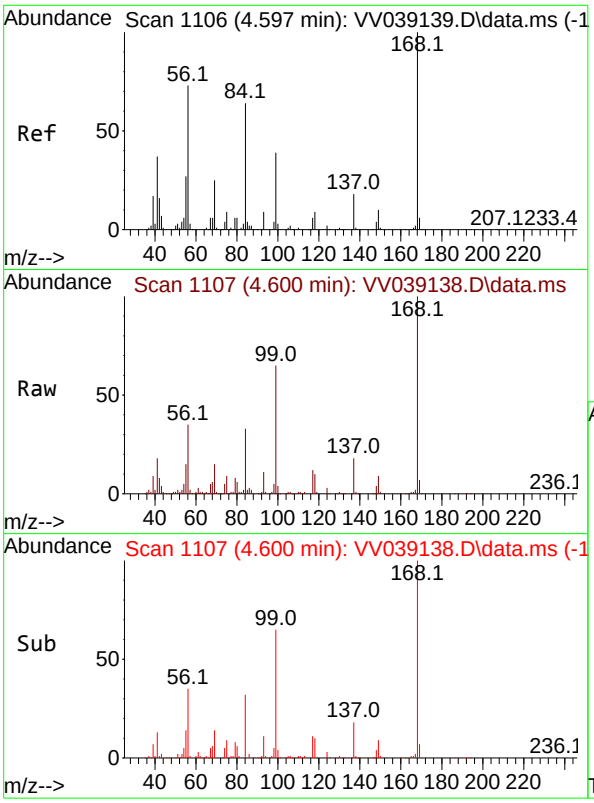
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



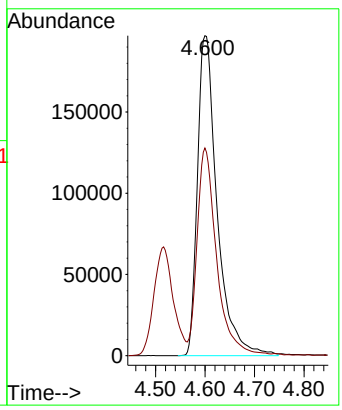


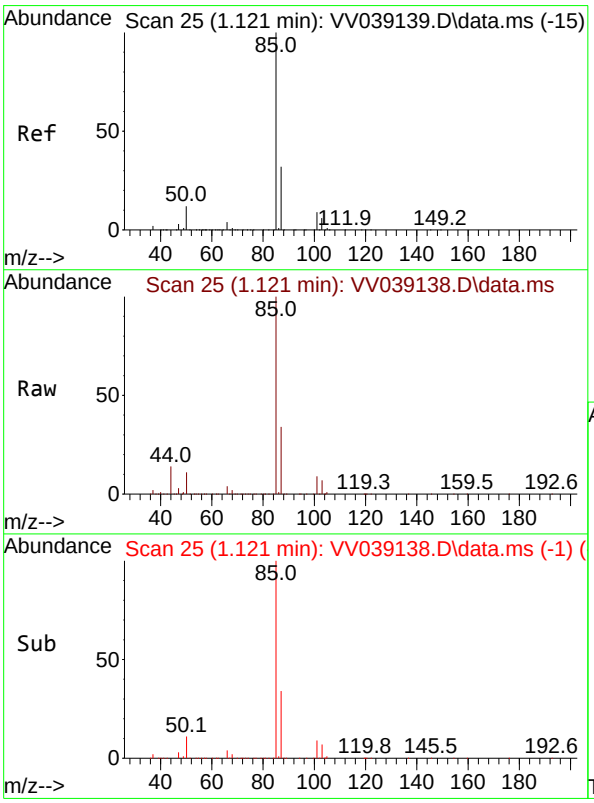
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 545775

Ion	Ratio	Lower	Upper
168	100		
99	64.3	49.6	74.4

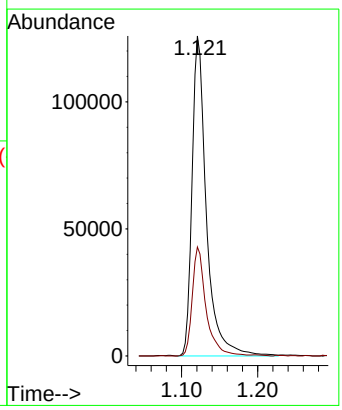


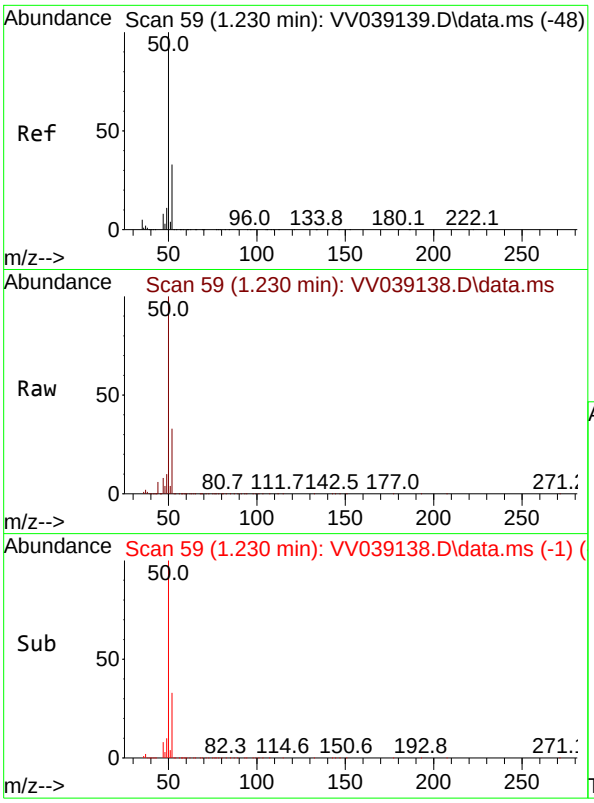


#2
Dichlorodifluoromethane
Concen: 19.118 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 85 Resp: 165175

Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.0	47.9



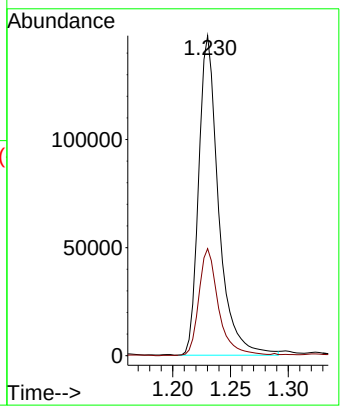


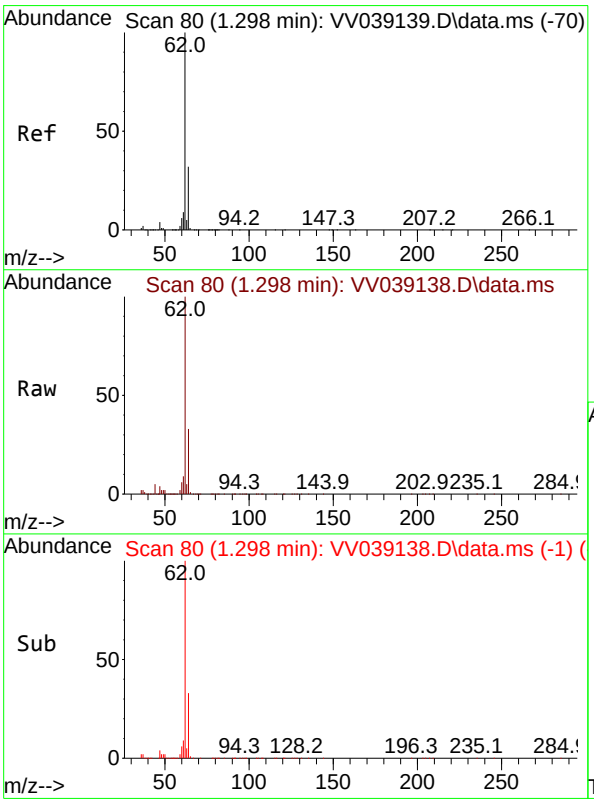
#3
Chloromethane
Concen: 19.159 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 177694

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.0	39.0

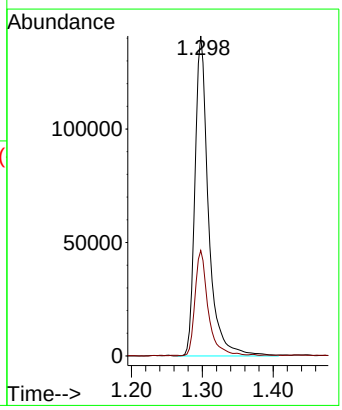


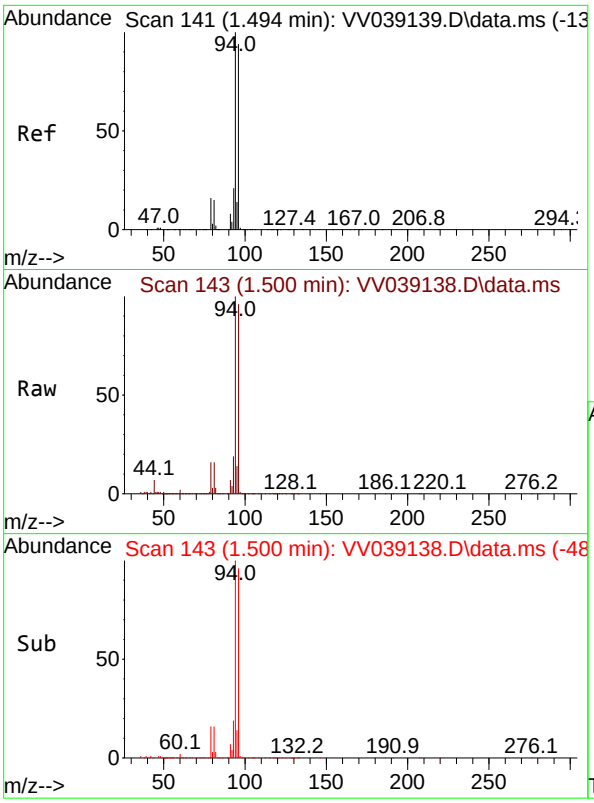


#4
Vinyl Chloride
Concen: 18.822 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 62 Resp: 186887

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.6	38.4



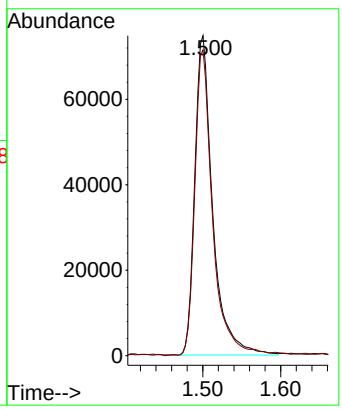


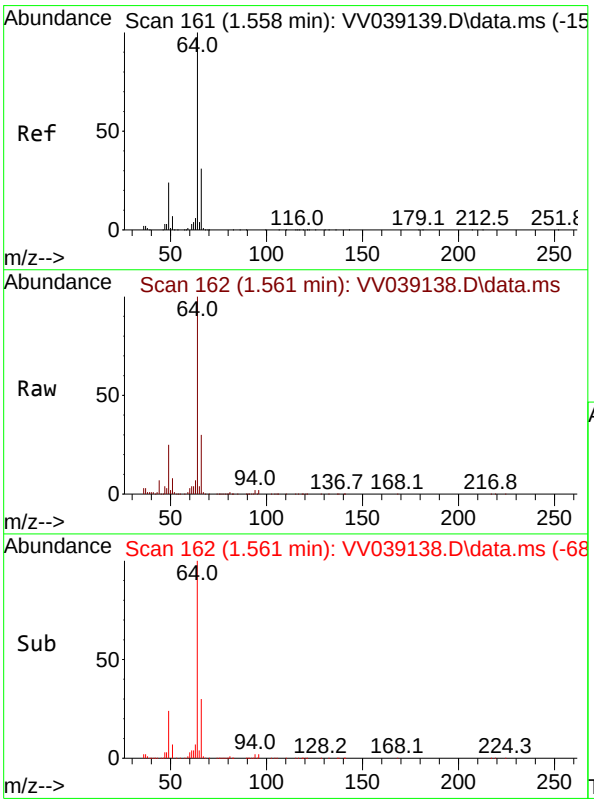
#5
Bromomethane
Concen: 19.104 ug/l
RT: 1.500 min Scan# 14
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 119578

Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.9	112.3

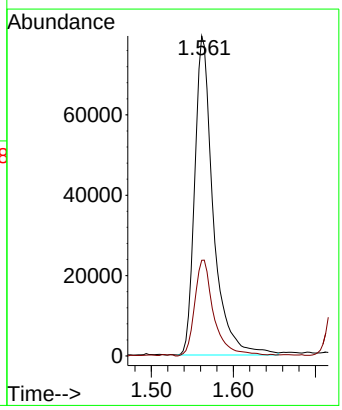


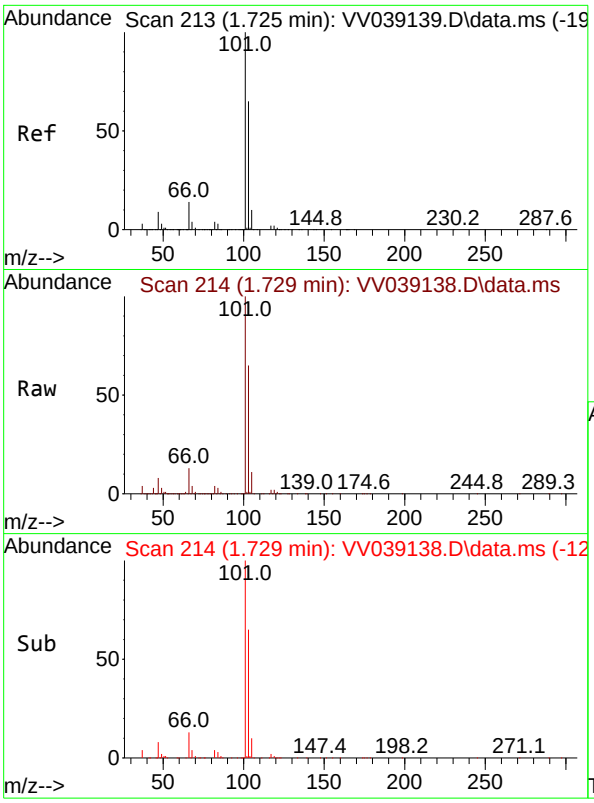


#6
Chloroethane
Concen: 19.935 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 64 Resp: 124021

Ion	Ratio	Lower	Upper
64	100		
66	30.0	24.6	36.8



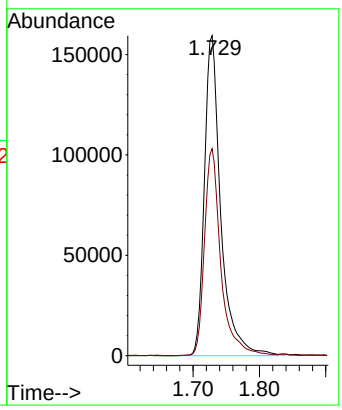


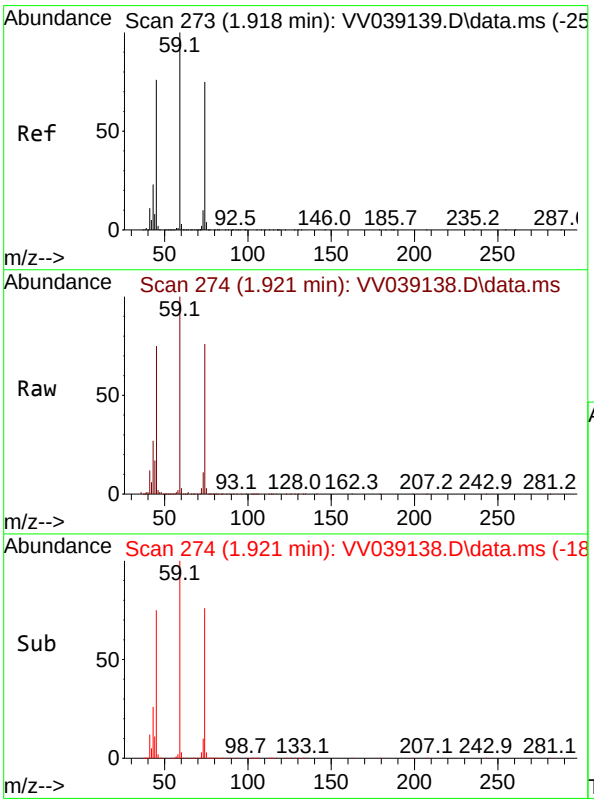
#7
Trichlorofluoromethane
Concen: 19.027 ug/l
RT: 1.729 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 273532

Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.0	78.0

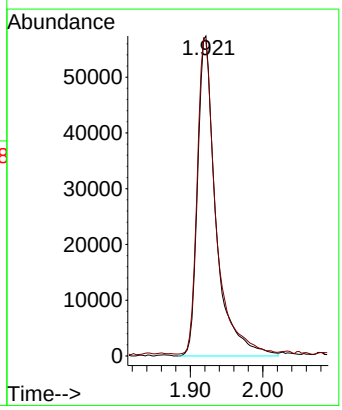


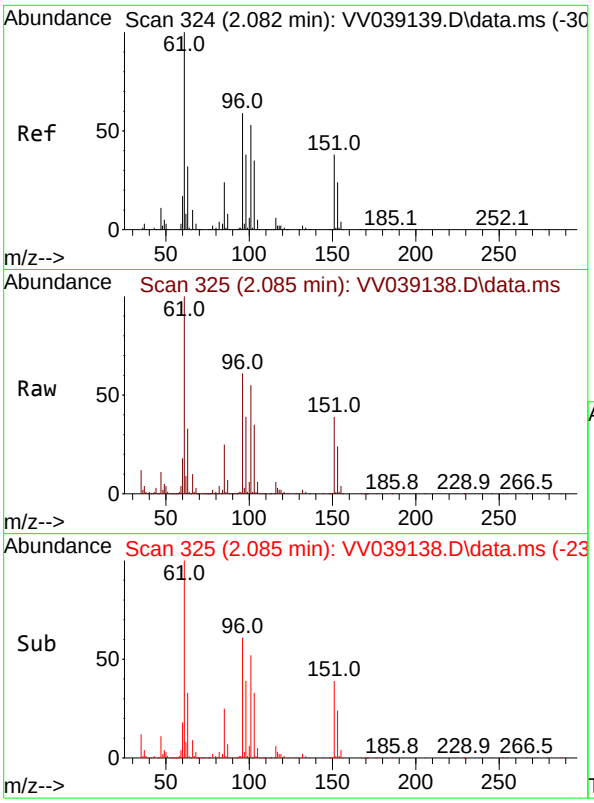


#8
Diethyl Ether
Concen: 18.862 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 74 Resp: 100661

Ion	Ratio	Lower	Upper
74	100		
45	100.4	49.6	148.8



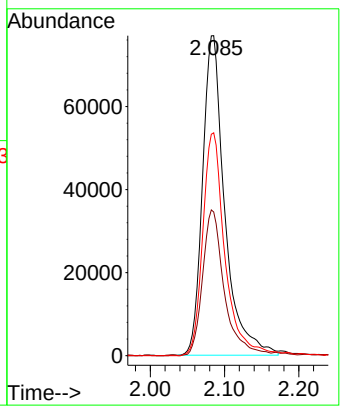


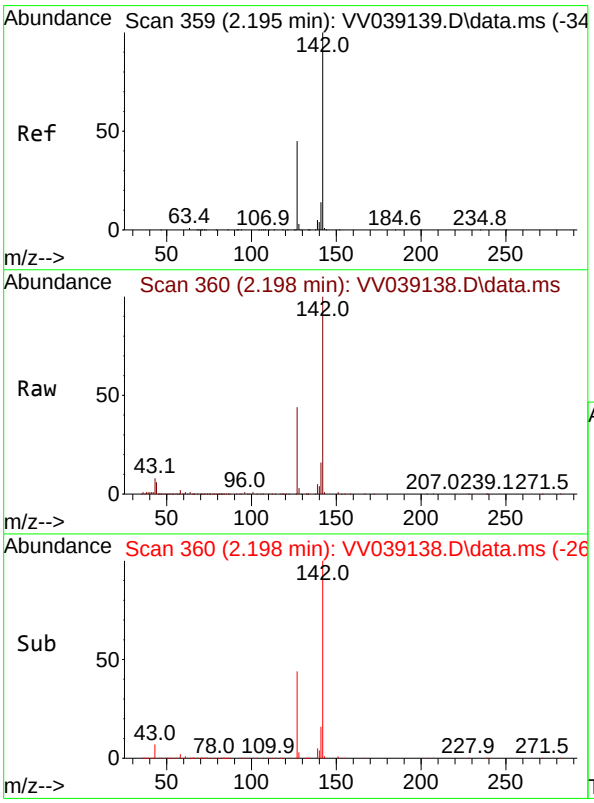
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.673 ug/l
RT: 2.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 159719

Ion	Ratio	Lower	Upper
101	100		
85	44.7	36.2	54.2
151	69.8	56.3	84.5

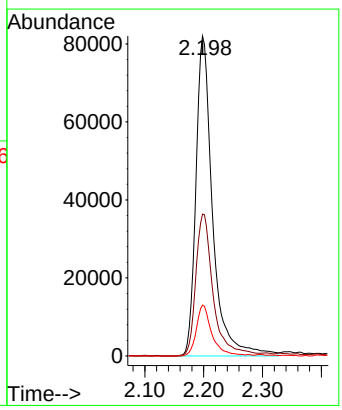


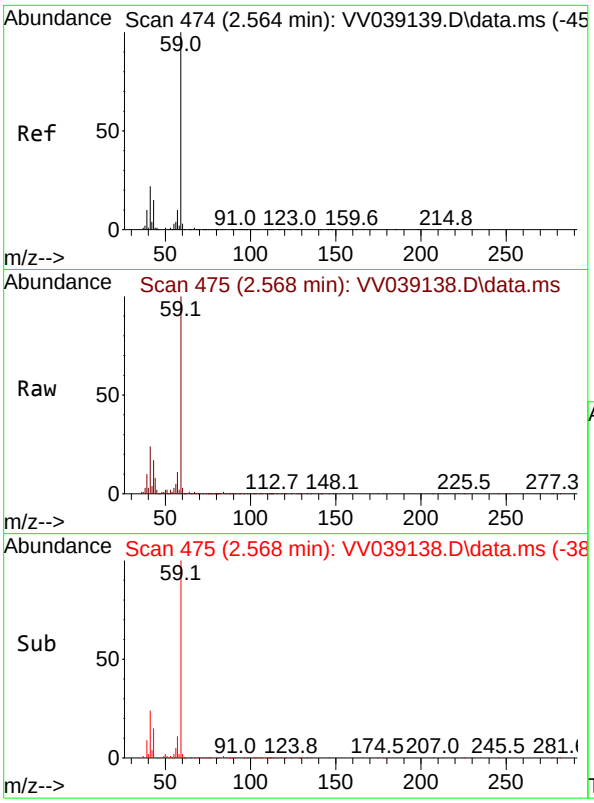


#10
Methyl Iodide
Concen: 19.880 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:142 Resp: 161932

Ion	Ratio	Lower	Upper
142	100		
127	46.1	36.3	54.5
141	14.8	11.2	16.8



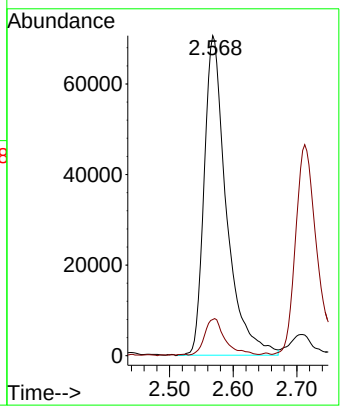


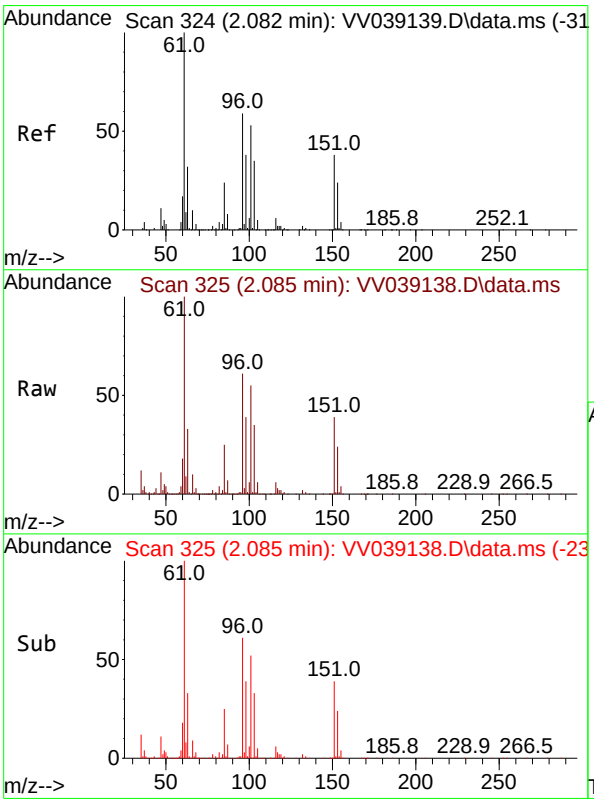
#11
Tert butyl alcohol
Concen: 102.509 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 171137

Ion	Ratio	Lower	Upper
59	100		
57	10.5	7.8	11.8

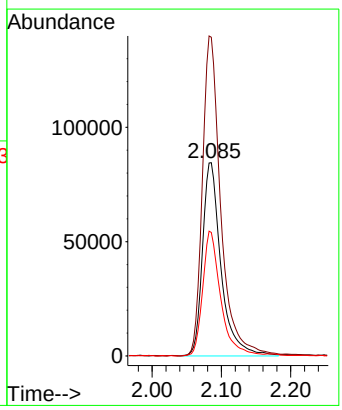


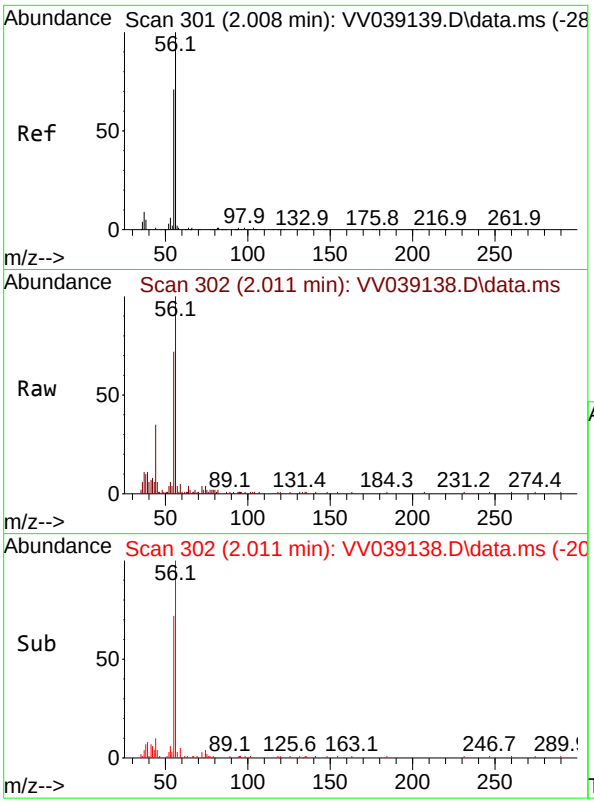


#12
1,1-Dichloroethene
Concen: 19.131 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 96 Resp: 157427

Ion	Ratio	Lower	Upper
96	100		
61	164.7	136.0	204.0
98	63.9	51.0	76.6



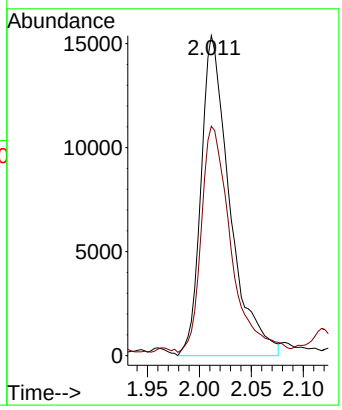


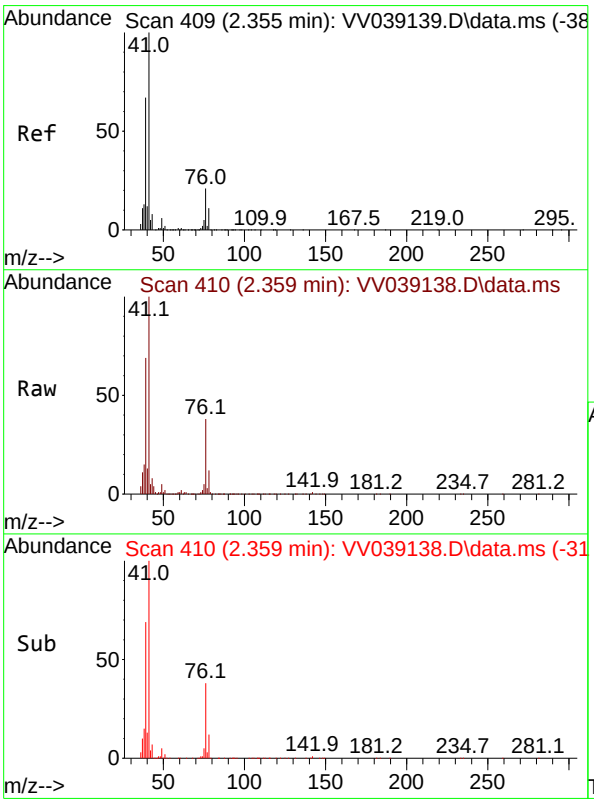
#13
Acrolein
Concen: 102.210 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 29609

Ion	Ratio	Lower	Upper
56	100		
55	72.5	56.2	84.4

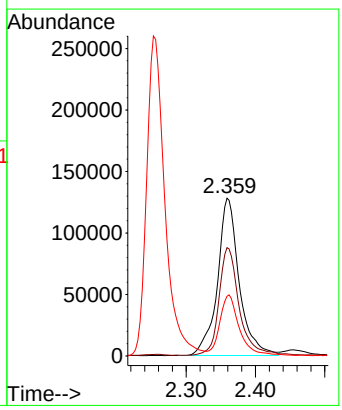


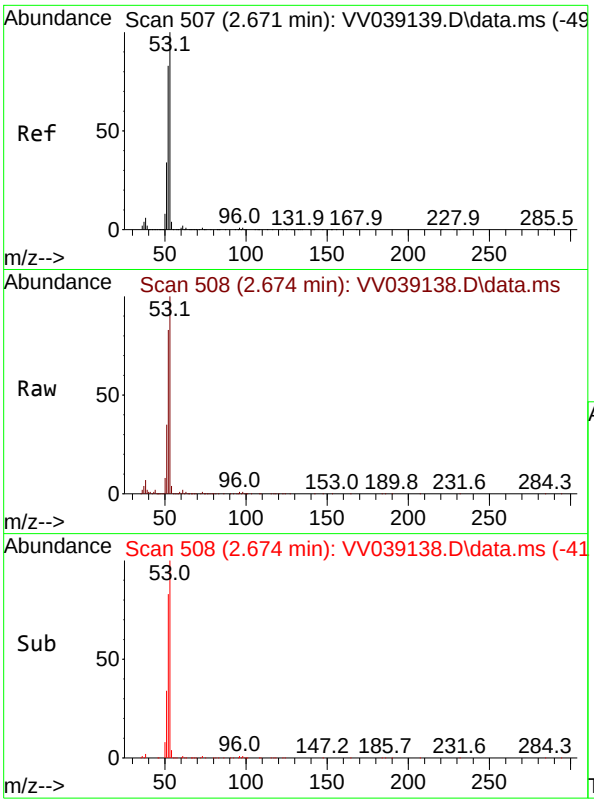


#14
Allyl chloride
Concen: 19.062 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 41 Resp: 280200

Ion	Ratio	Lower	Upper
41	100		
39	63.6	51.0	76.6
76	34.5	28.2	42.4



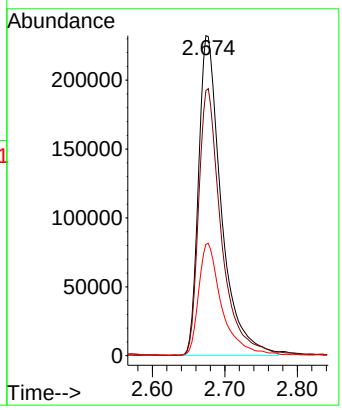


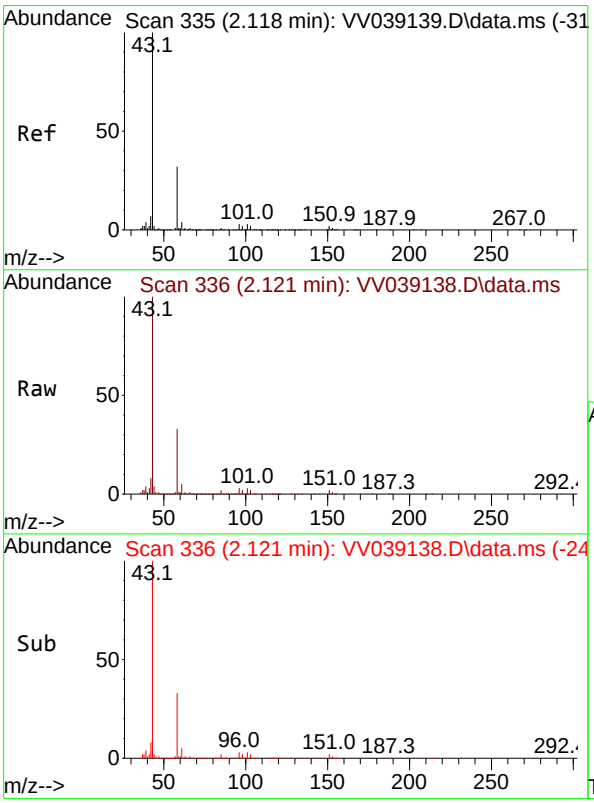
#15
Acrylonitrile
Concen: 94.179 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 504022

Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.1	99.1
51	35.7	28.5	42.7

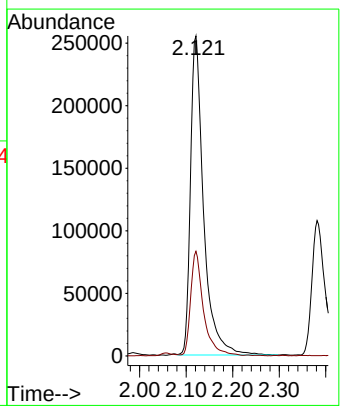


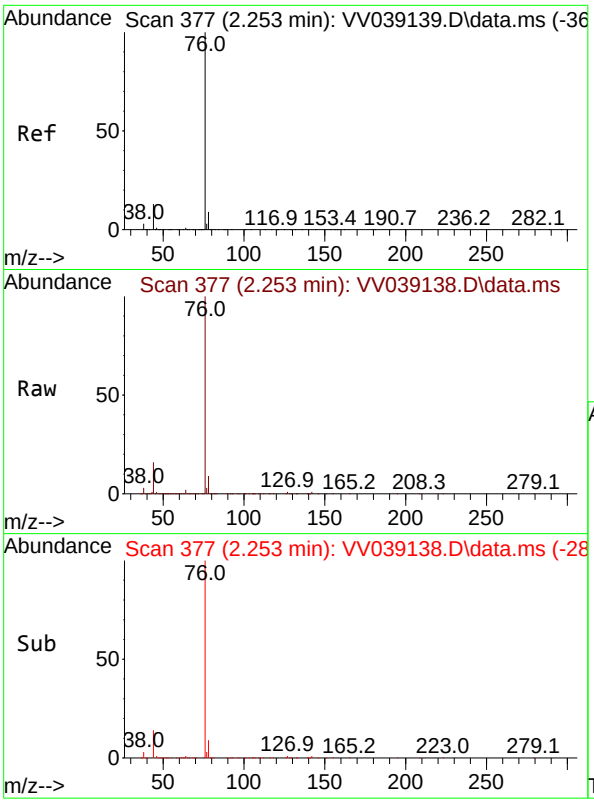


#16
Acetone
Concen: 95.756 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 499669

Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.8	38.6



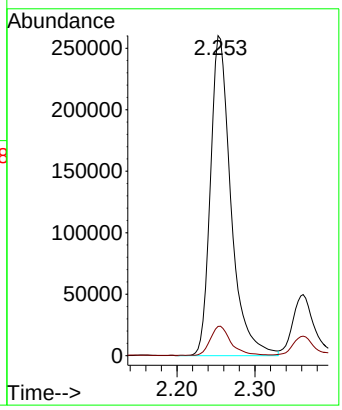


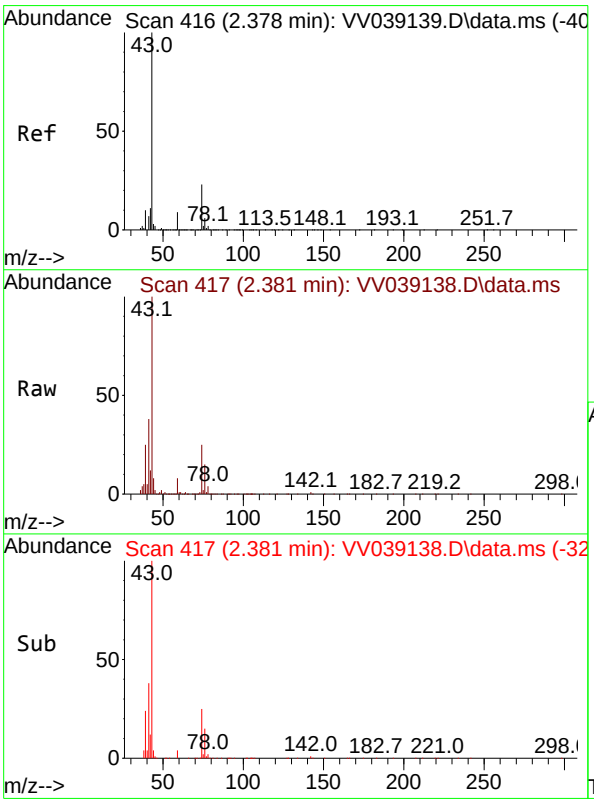
#17
Carbon Disulfide
Concen: 18.923 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 476229

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

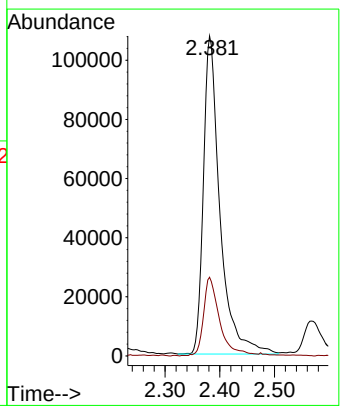


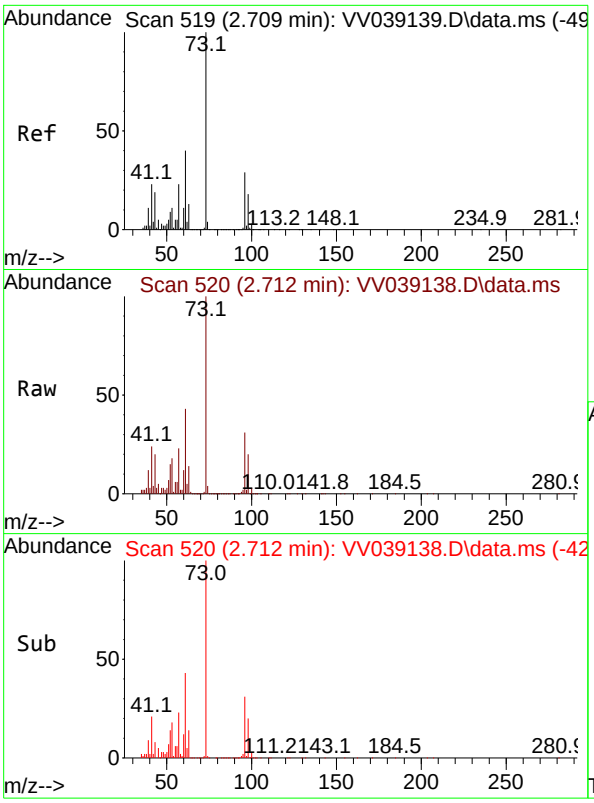


#18
Methyl Acetate
Concen: 19.328 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 226208

Ion	Ratio	Lower	Upper
43	100		
74	24.2	18.6	27.8



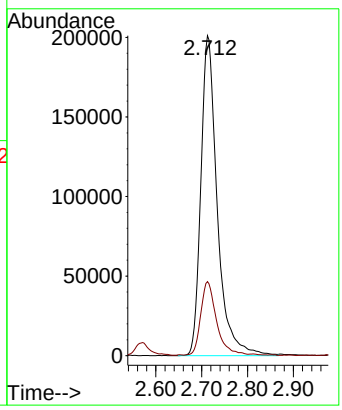


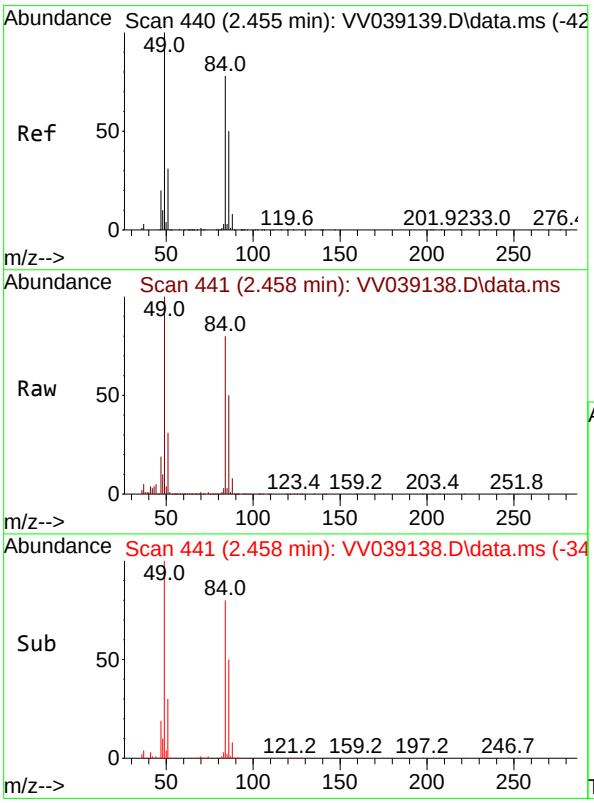
#19
Methyl tert-butyl Ether
Concen: 19.027 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 498918

Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.2	27.4

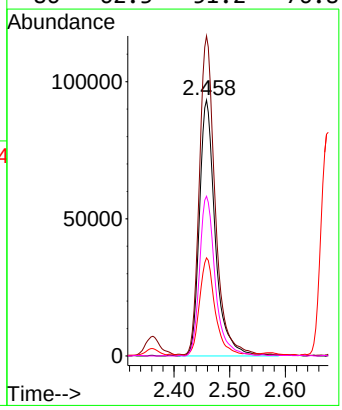


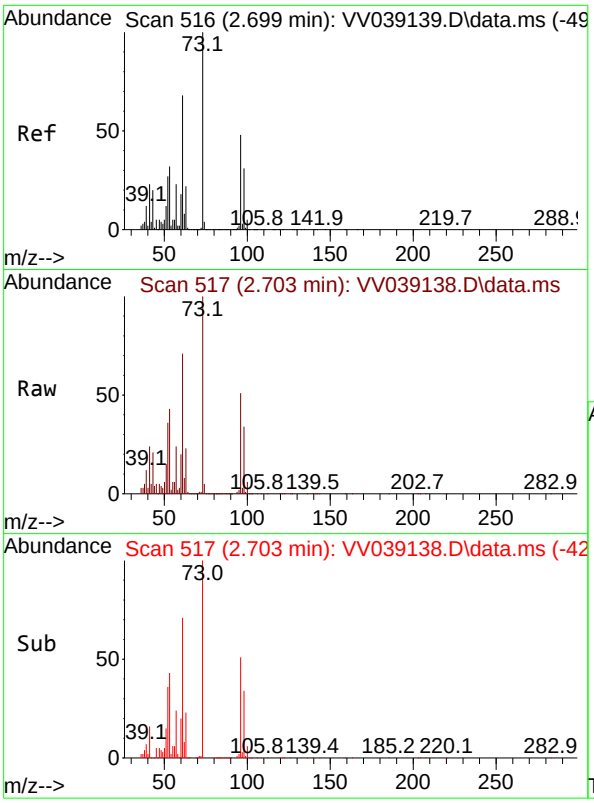


#20
Methylene Chloride
Concen: 20.143 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 84 Resp: 185050

Ion	Ratio	Lower	Upper
84	100		
49	124.6	102.8	154.2
51	38.0	31.9	47.9
86	62.3	51.2	76.8



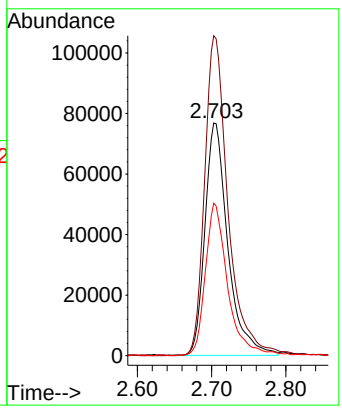


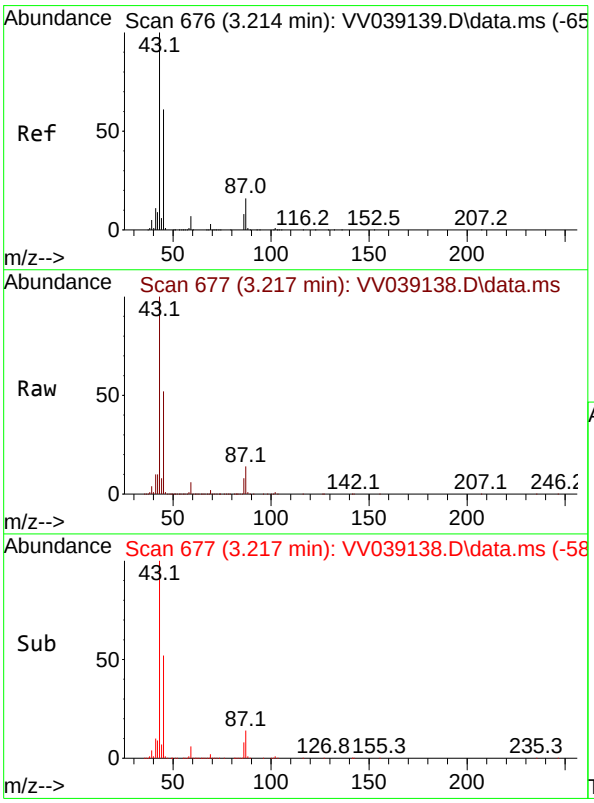
#21
trans-1,2-Dichloroethene
Concen: 18.823 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 164898

Ion	Ratio	Lower	Upper
96	100		
61	137.4	112.8	169.2
98	65.4	51.1	76.7

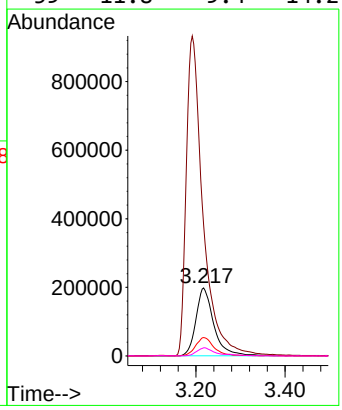


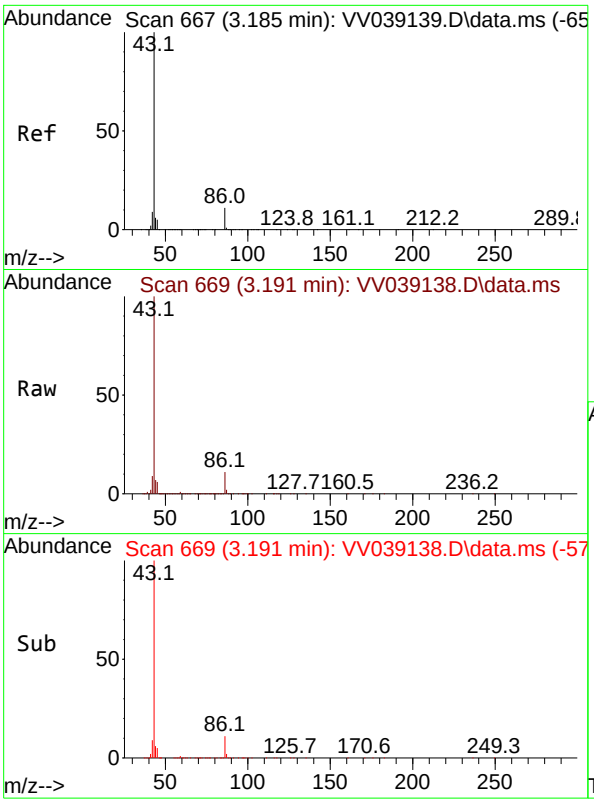


#22
Diisopropyl ether
Concen: 19.640 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 45 Resp: 552331

Ion	Ratio	Lower	Upper
45	100		
43	191.3	130.9	196.3
87	27.0	21.1	31.7
59	11.8	9.4	14.2



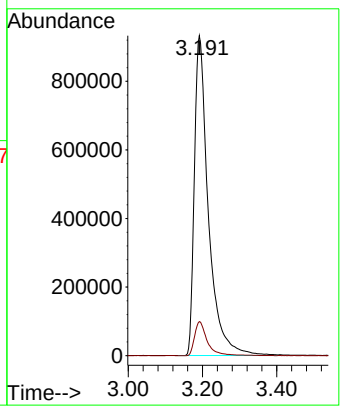


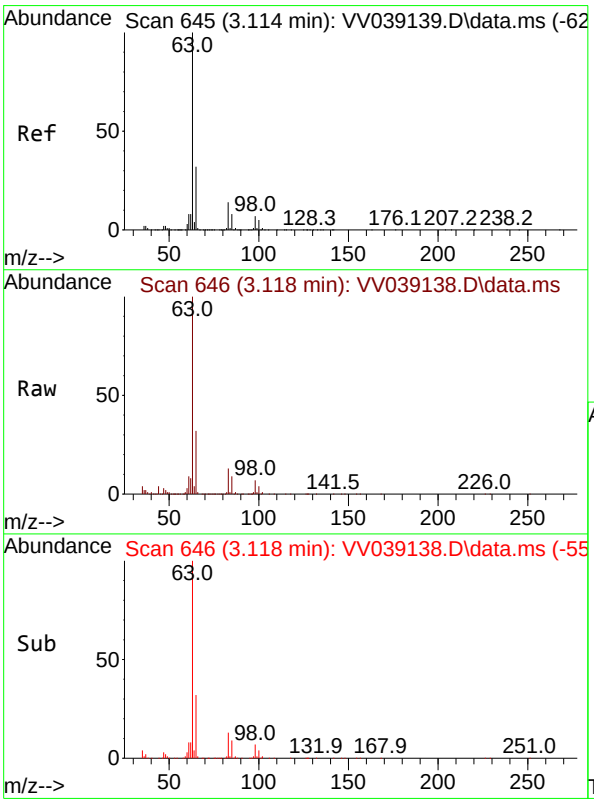
#23
Vinyl Acetate
Concen: 99.414 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 2445787

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6

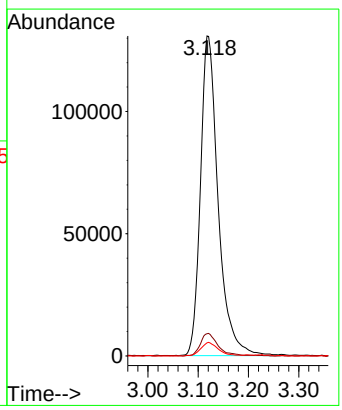


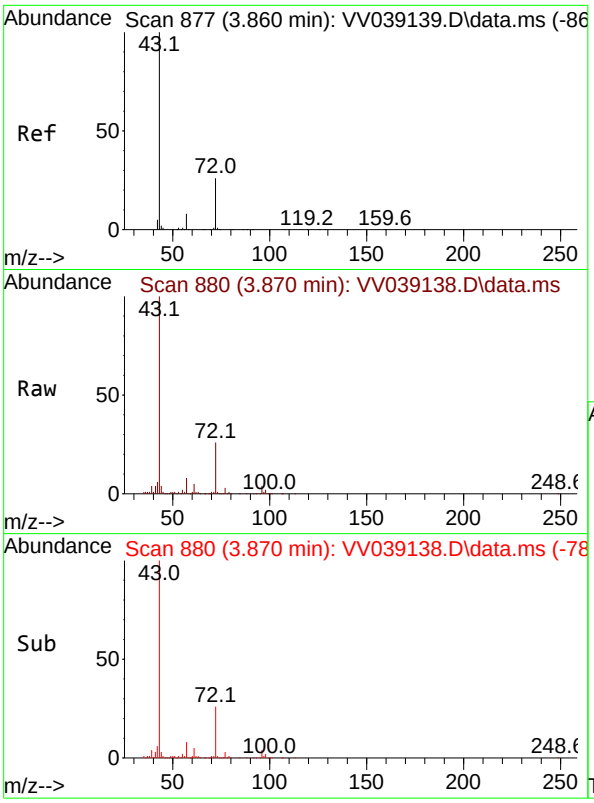


#24
1,1-Dichloroethane
Concen: 18.615 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 63 Resp: 320146

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.1	2.2	6.6



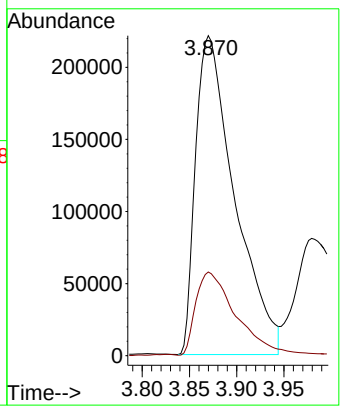


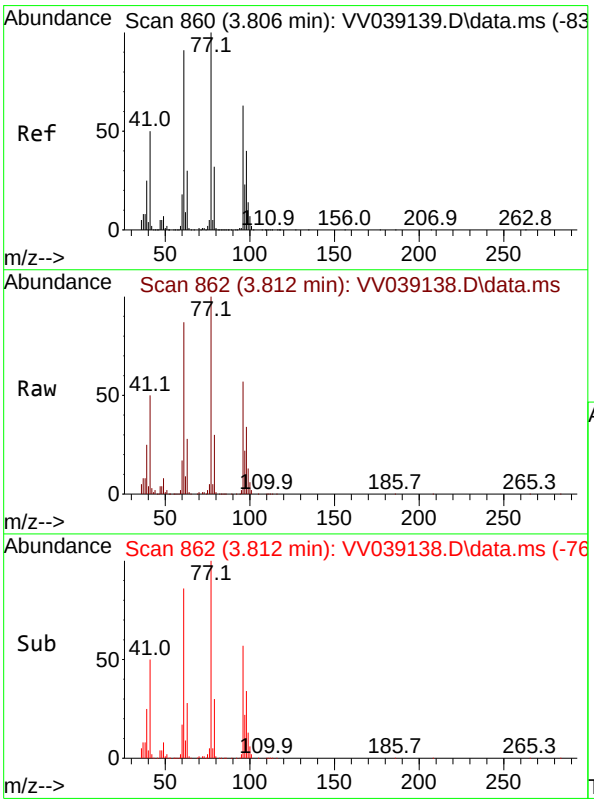
#25
2-Butanone
Concen: 102.519 ug/l
RT: 3.870 min Scan# 8
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 637413

Ion	Ratio	Lower	Upper
43	100		
72	26.1	21.0	31.6

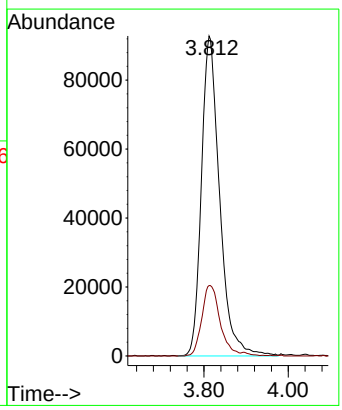


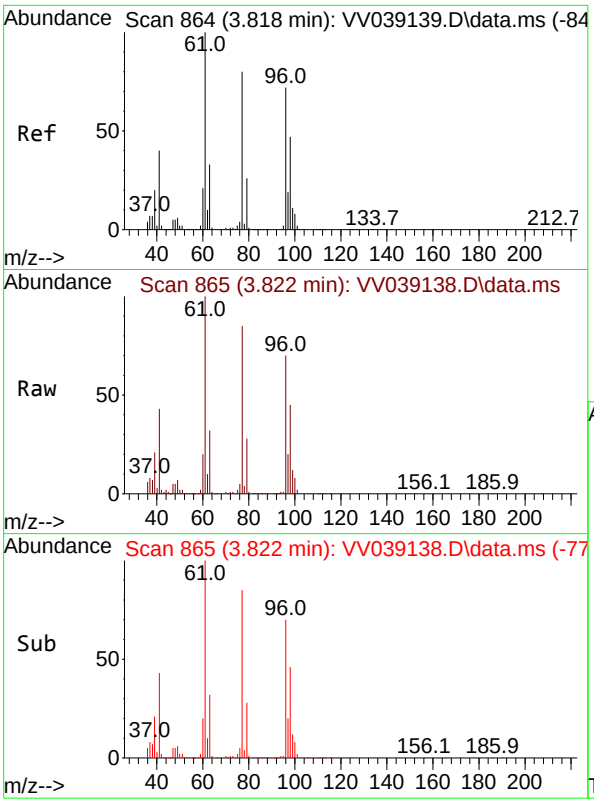


#26
2,2-Dichloropropane
Concen: 18.326 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 77 Resp: 278362

Ion	Ratio	Lower	Upper
77	100		
97	21.9	11.6	34.7



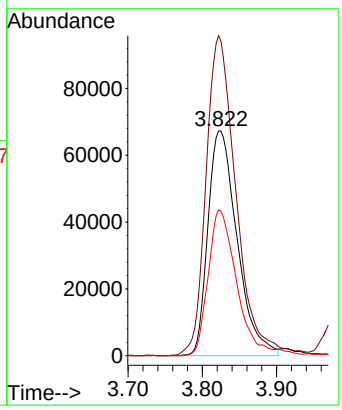


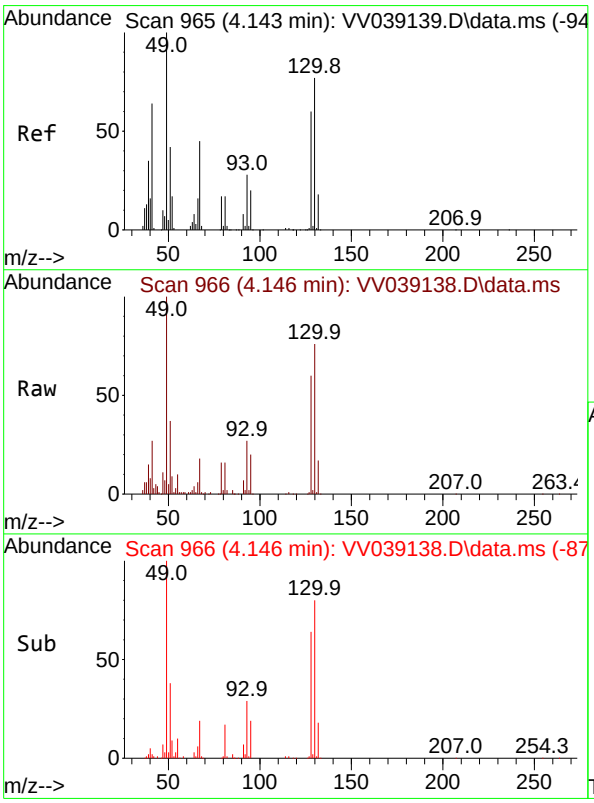
#27
cis-1,2-Dichloroethene
Concen: 19.031 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 183867

Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	286.4
98	63.8	0.0	126.6

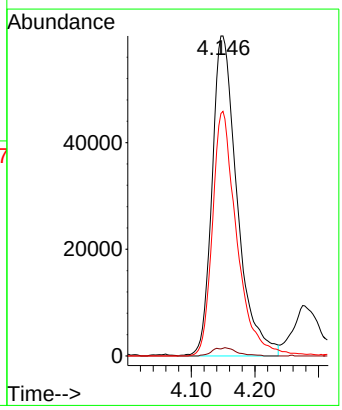


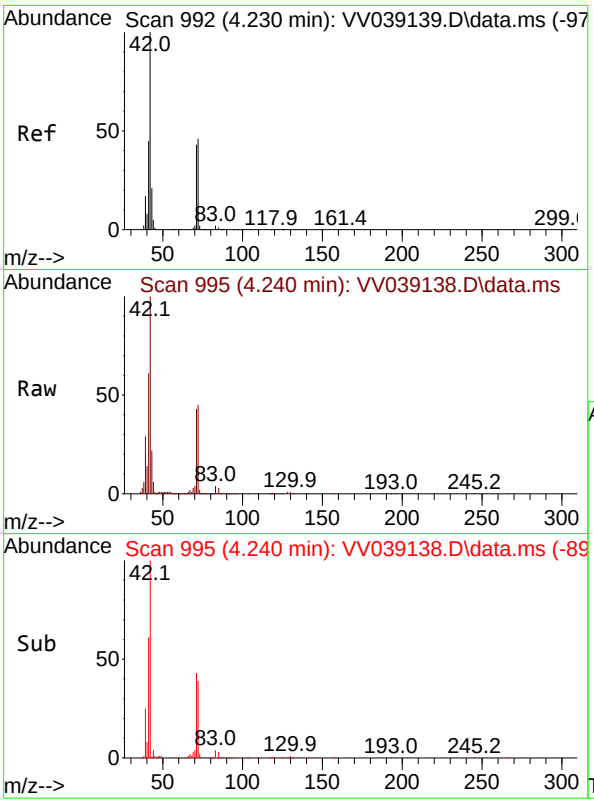


#28
Bromochloromethane
Concen: 21.654 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 49 Resp: 164406

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.2
130	74.3	60.2	90.2



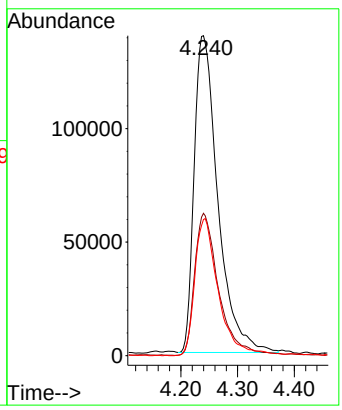


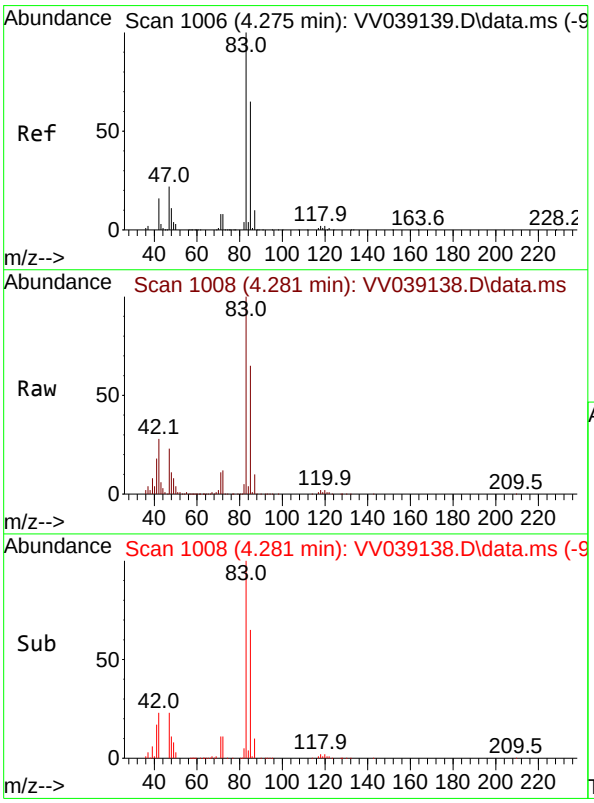
#29
Tetrahydrofuran
Concen: 102.491 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 405777

Ion	Ratio	Lower	Upper
42	100		
72	45.2	36.3	54.5
71	42.2	34.3	51.5

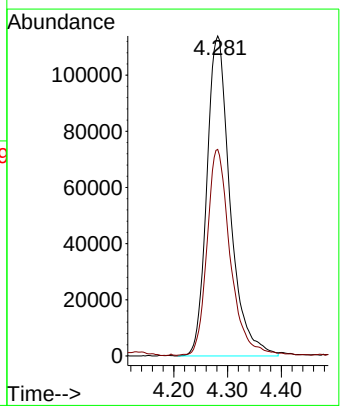


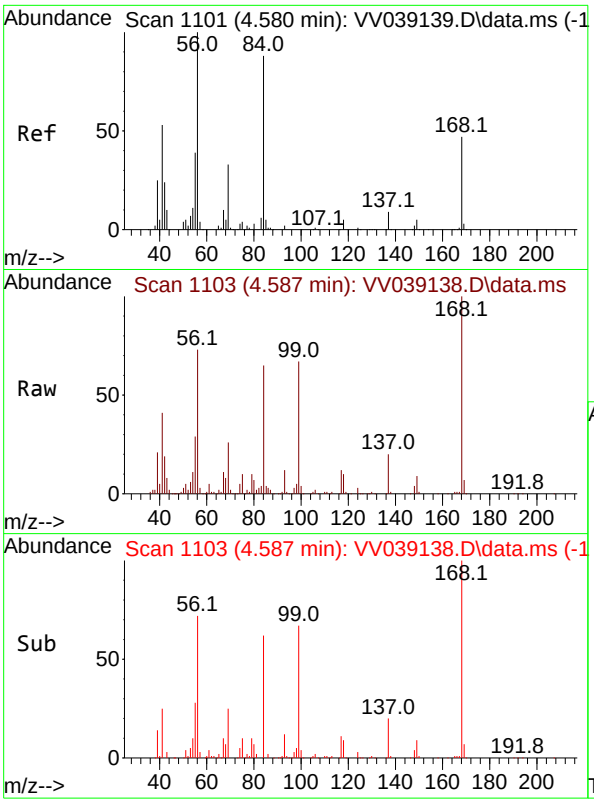


#30
Chloroform
Concen: 19.083 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 83 Resp: 342700

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1



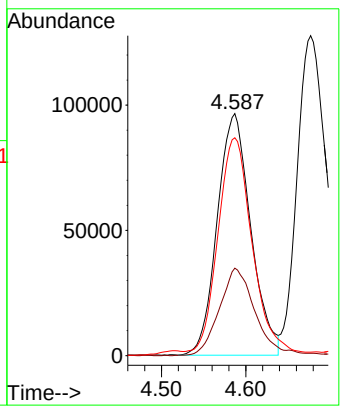


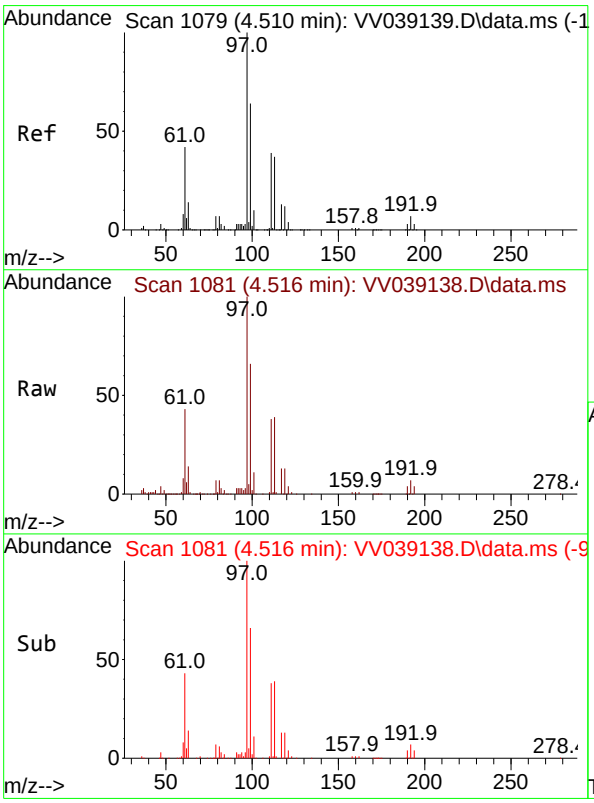
#31
Cyclohexane
Concen: 18.934 ug/l
RT: 4.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 266753

Ion	Ratio	Lower	Upper
56	100		
69	36.0	26.2	39.2
84	88.2	70.3	105.5

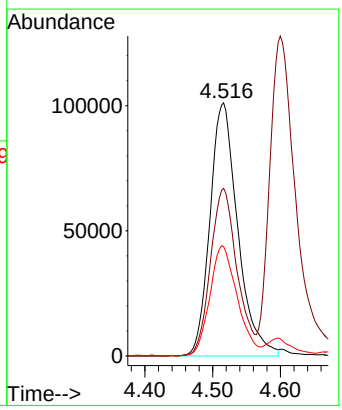


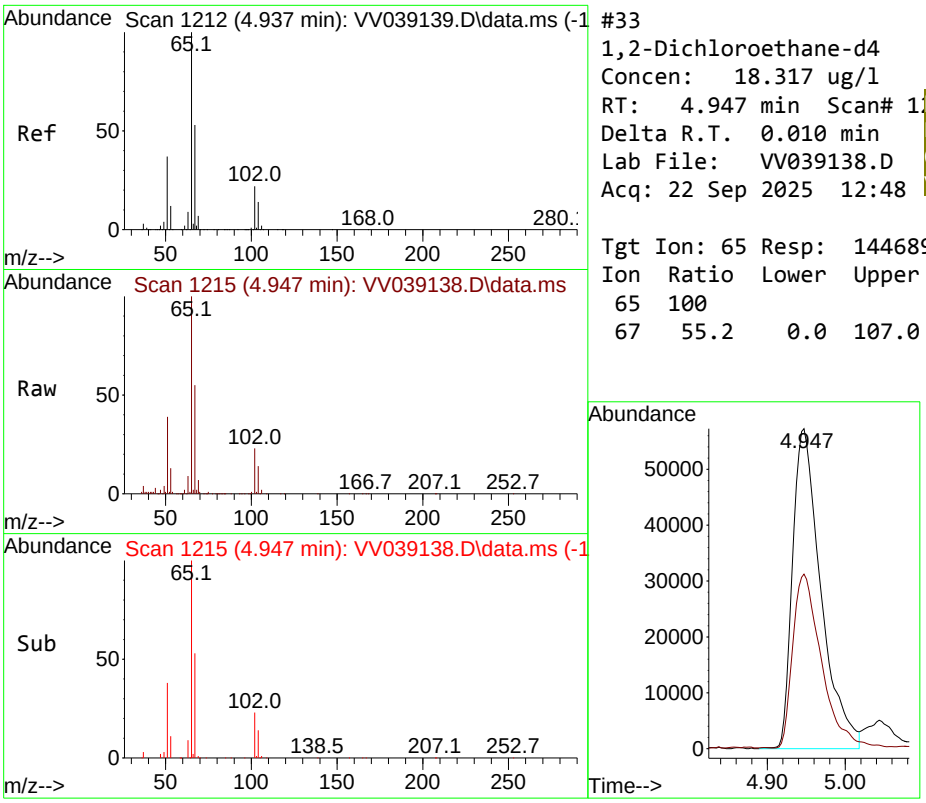


#32
1,1,1-Trichloroethane
Concen: 18.546 ug/l
RT: 4.516 min Scan# 1081
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 97 Resp: 288341

Ion	Ratio	Lower	Upper
97	100		
99	63.5	49.6	74.4
61	43.1	34.5	51.7



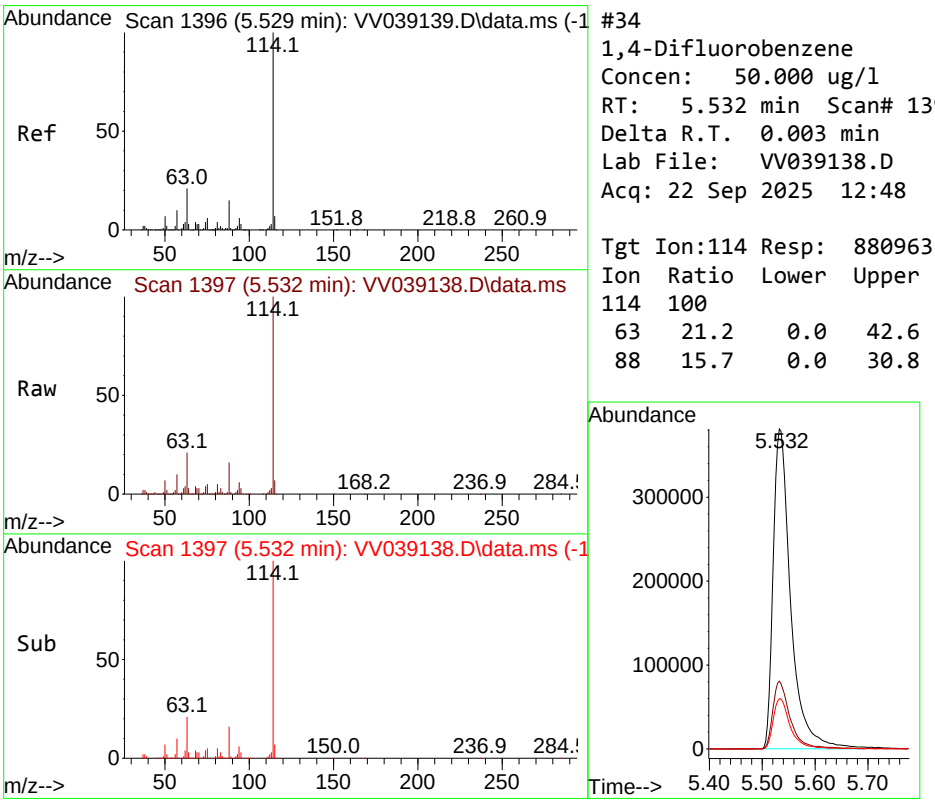


#33
1,2-Dichloroethane-d4
Concen: 18.317 ug/l
RT: 4.947 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 144689

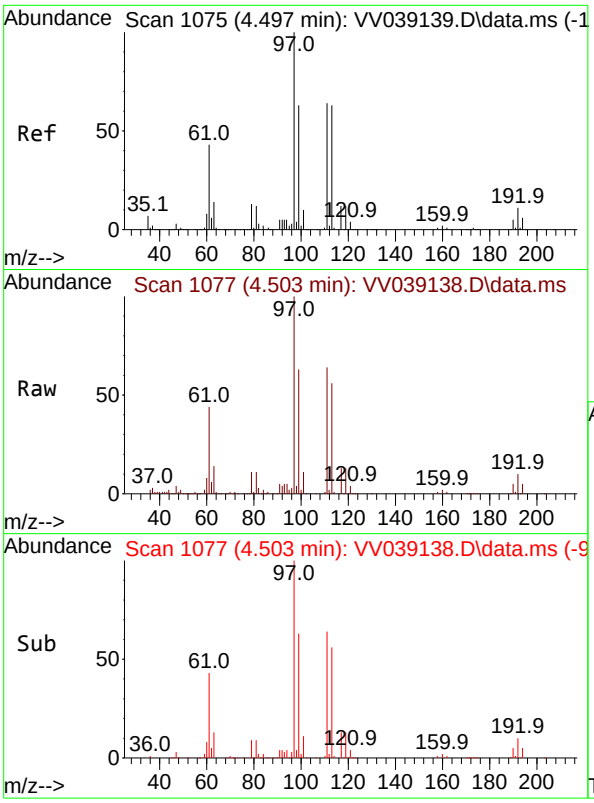
Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	107.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:114 Resp: 880963

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.6
88	15.7	0.0	30.8

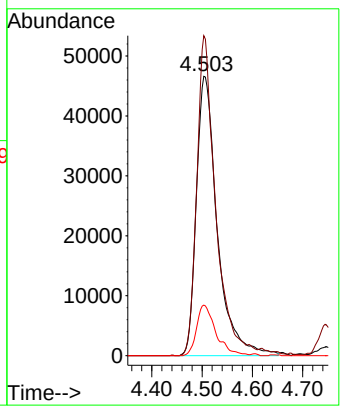


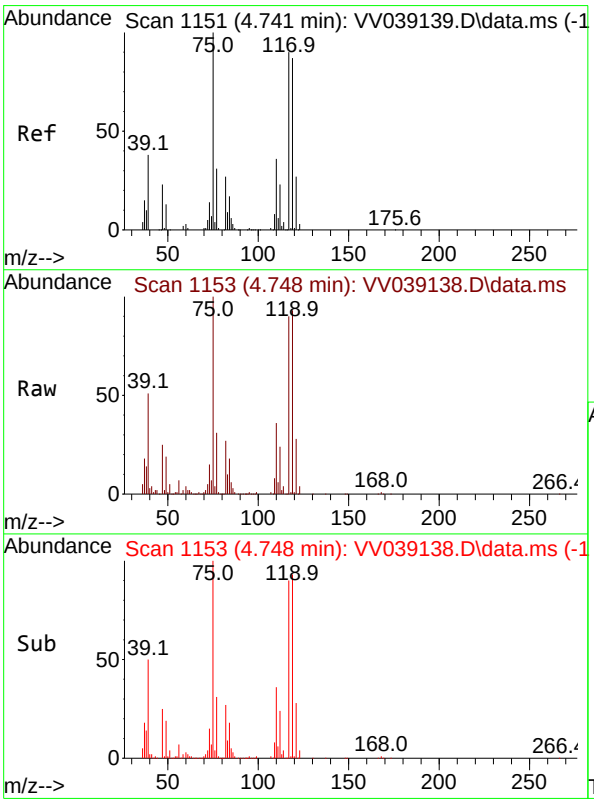
#35
Dibromofluoromethane
Concen: 19.014 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 134662

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	16.7	13.8	20.8

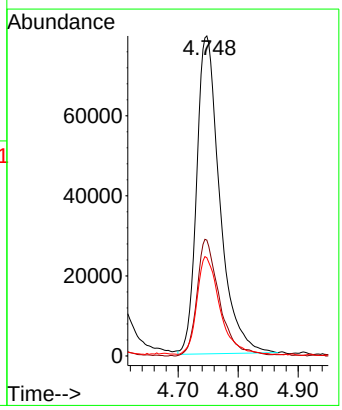


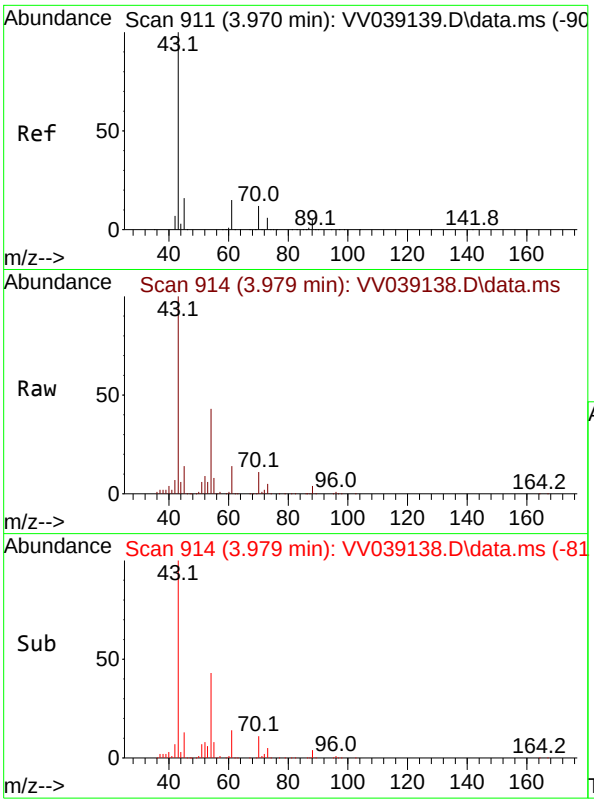


#36
1,1-Dichloropropene
Concen: 19.734 ug/l
RT: 4.748 min Scan# 1153
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 212835

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.1
77	30.3	24.8	37.2



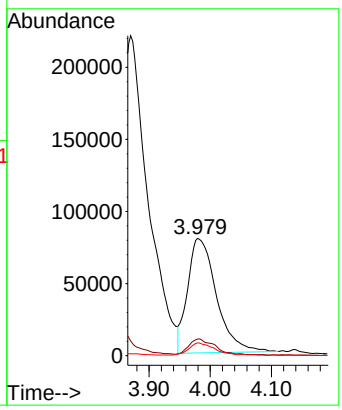


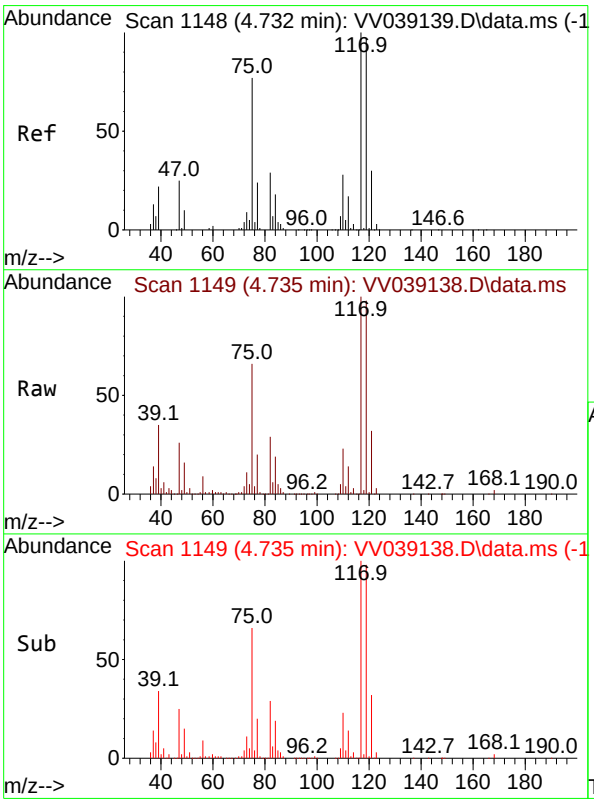
#37
Ethyl Acetate
Concen: 19.696 ug/l
RT: 3.979 min Scan# 91
Delta R.T. 0.009 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 260591

Ion	Ratio	Lower	Upper
43	100		
61	11.3	10.3	15.5
70	9.0	8.0	12.0

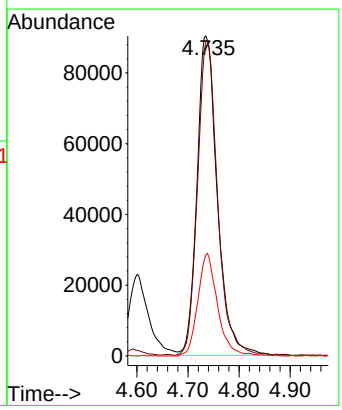


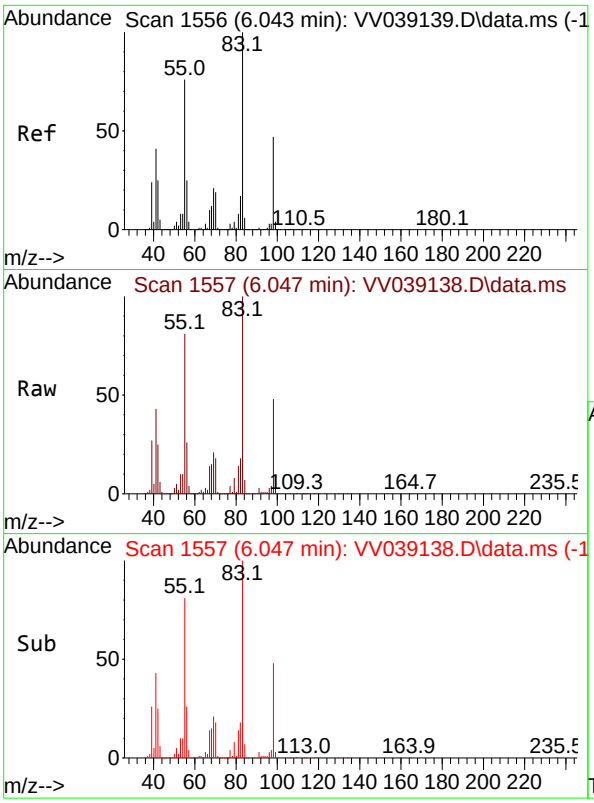


#38
Carbon Tetrachloride
Concen: 19.252 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:117 Resp: 250103

Ion	Ratio	Lower	Upper
117	100		
119	98.1	77.2	115.8
121	31.7	24.2	36.2



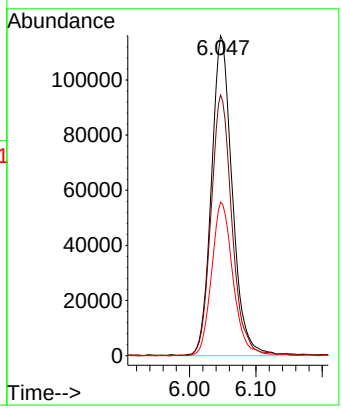


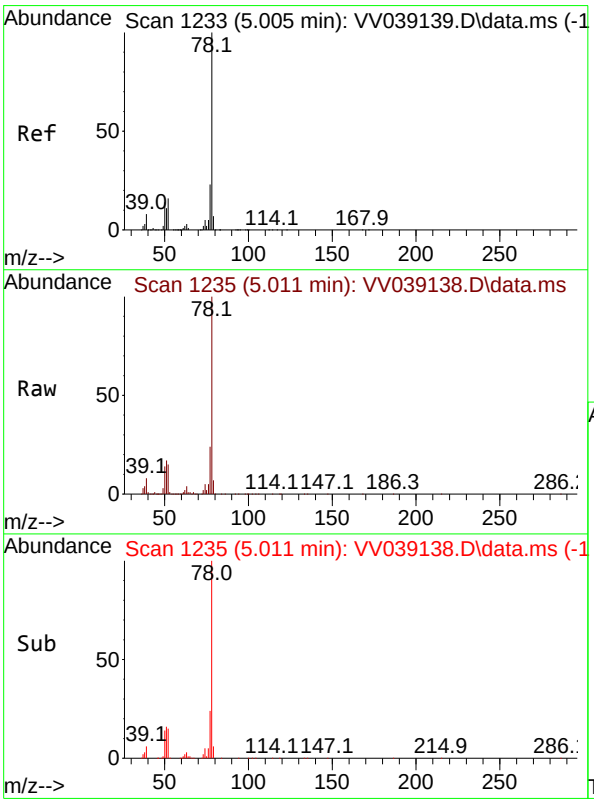
#39
Methylcyclohexane
Concen: 19.619 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 253693

Ion	Ratio	Lower	Upper
83	100		
55	81.4	60.5	90.7
98	48.0	37.8	56.6

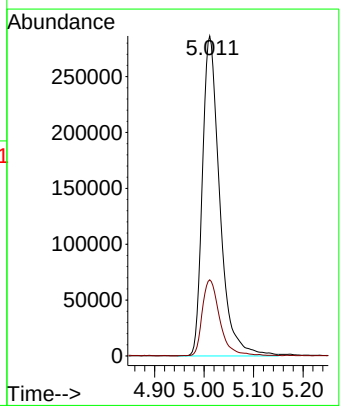


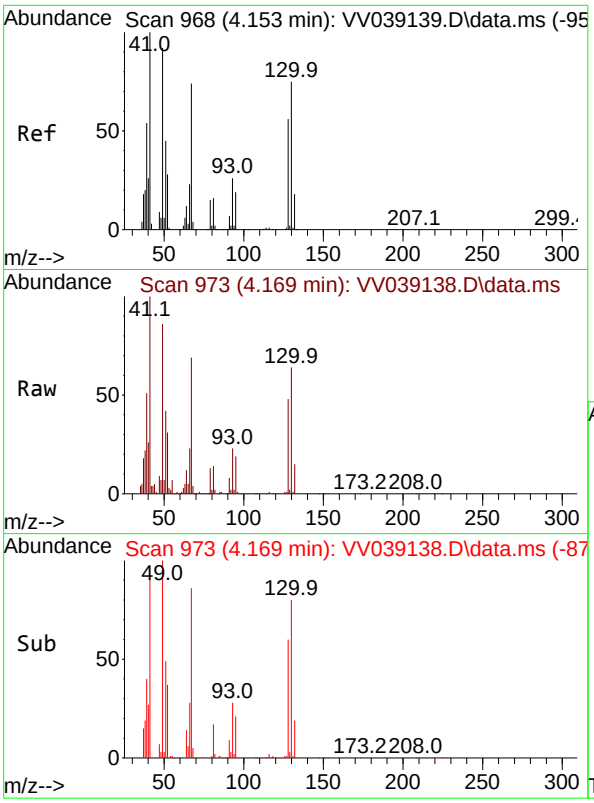


#40
Benzene
Concen: 19.994 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 78 Resp: 697141

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1



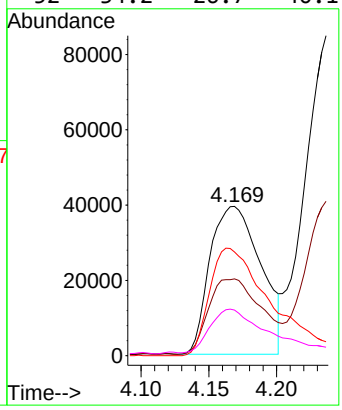


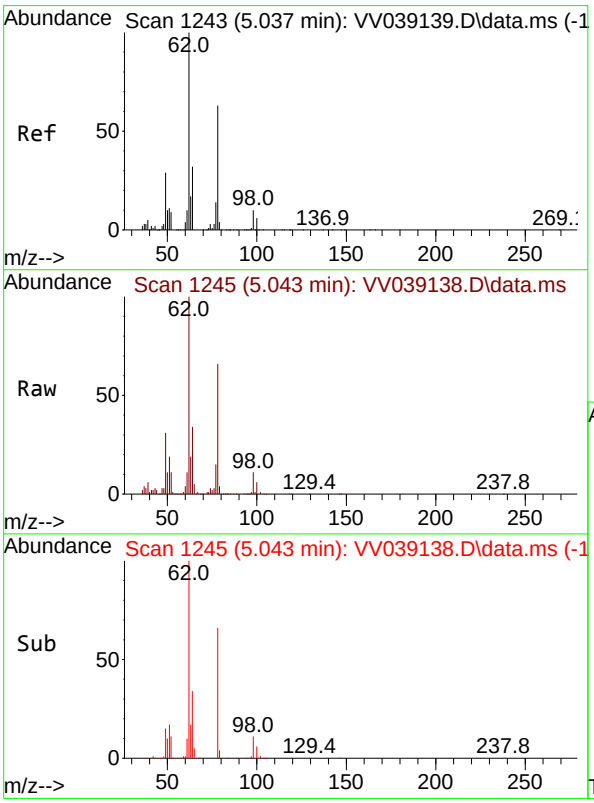
#41
Methacrylonitrile
Concen: 18.721 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 102755

Ion	Ratio	Lower	Upper
41	100		
39	53.8	42.2	63.2
67	92.1	67.9	101.9
52	34.2	26.7	40.1

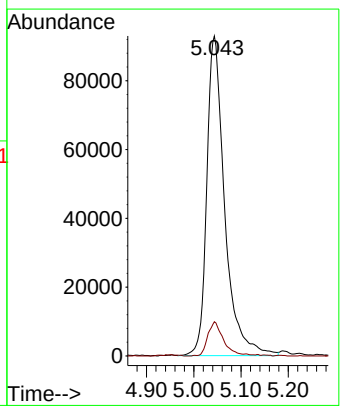


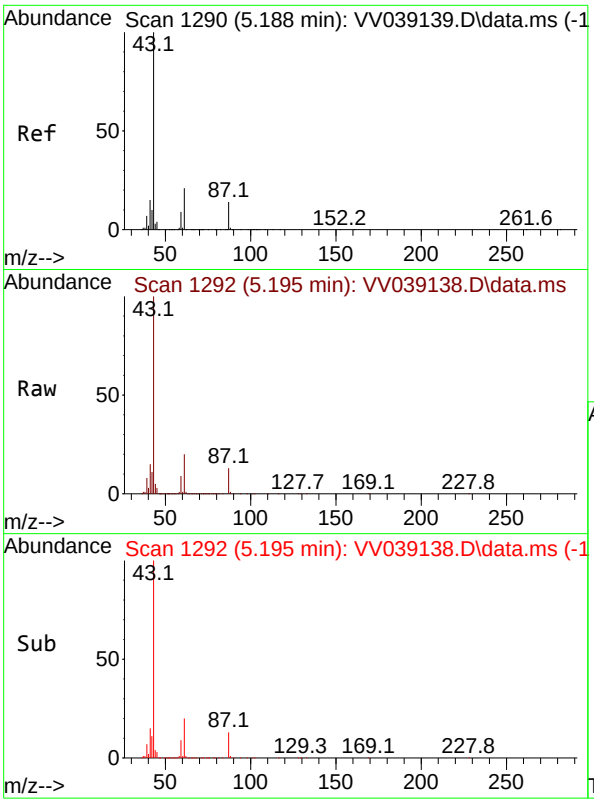


#42
1,2-Dichloroethane
Concen: 20.012 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 62 Resp: 244487

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.2



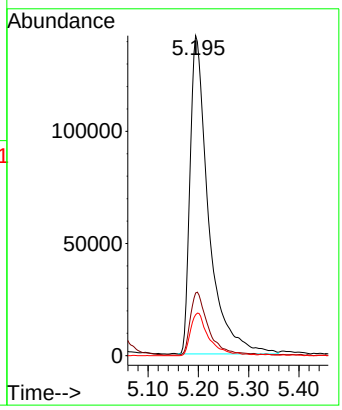


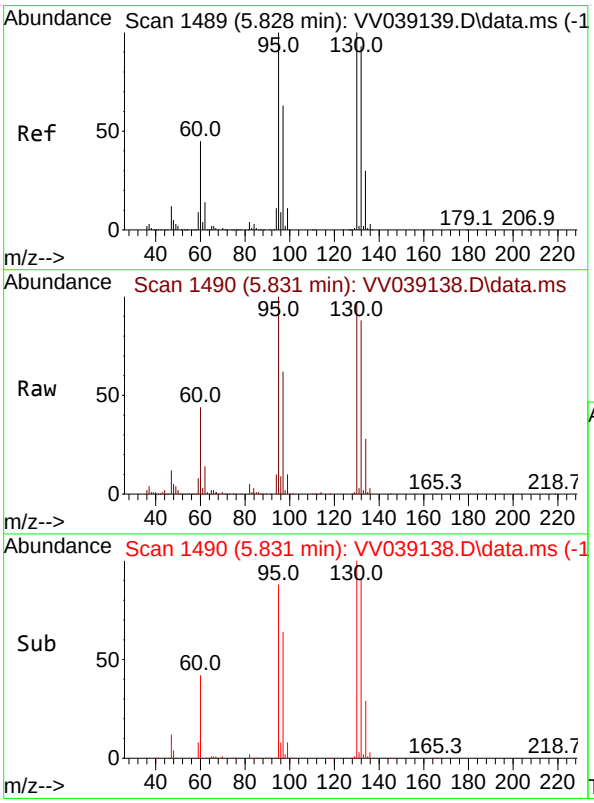
#43
Isopropyl Acetate
Concen: 19.889 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 362512

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.9	23.9
87	12.9	11.0	16.6

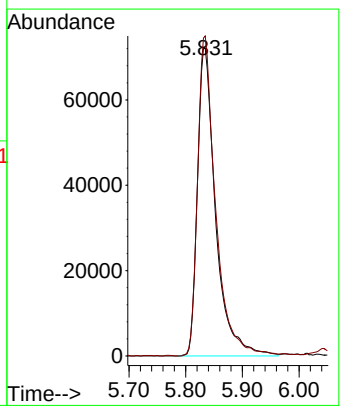


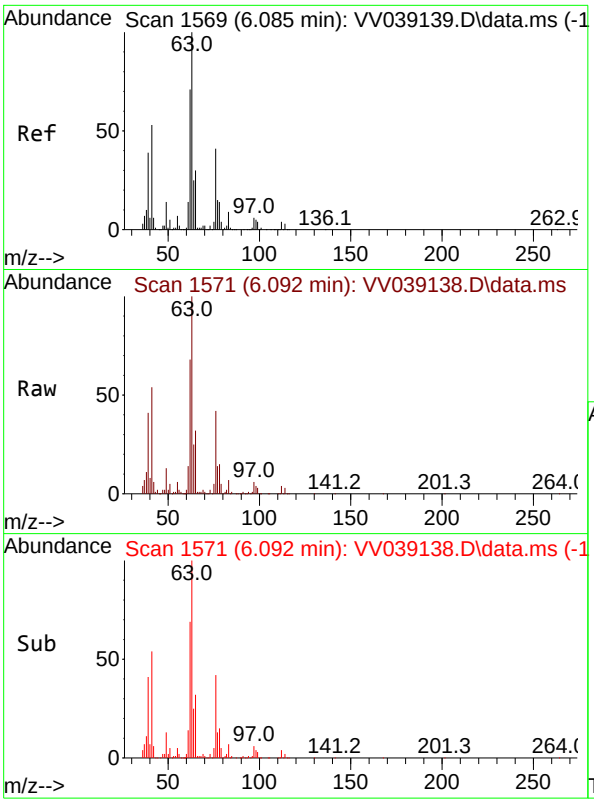


#44
Trichloroethene
Concen: 19.972 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:130 Resp: 160692

Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	199.2



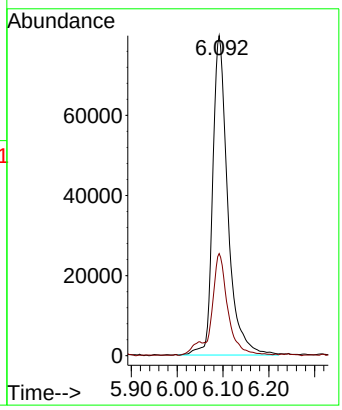


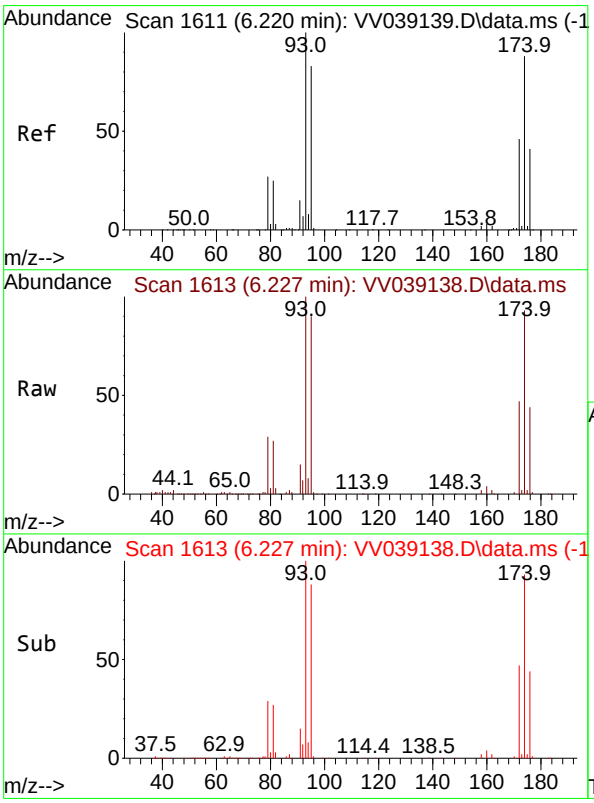
#45
1,2-Dichloropropane
Concen: 21.087 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 182757

Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.7	35.5

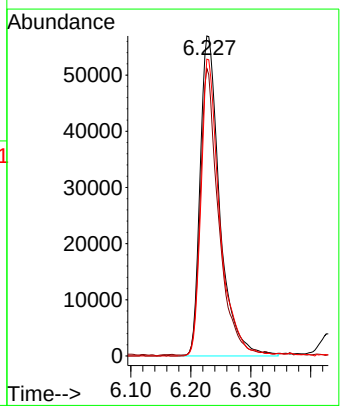


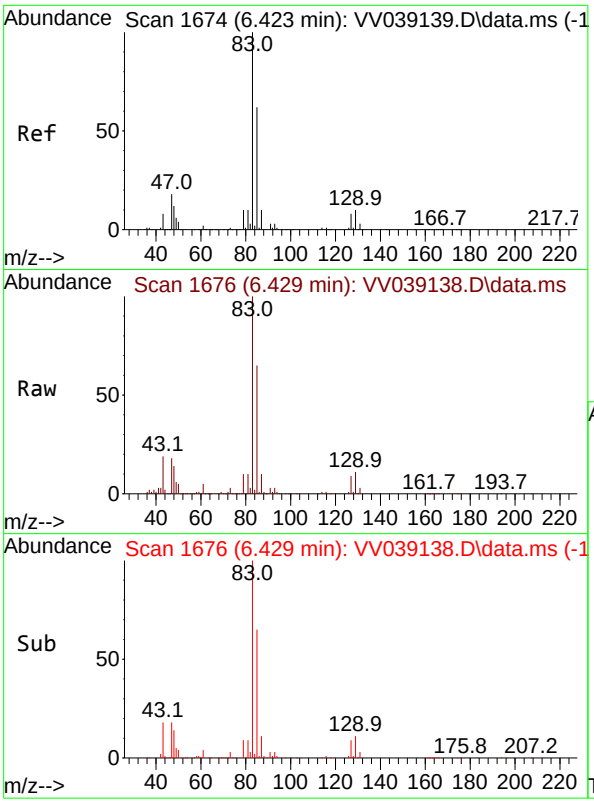


#46
Dibromomethane
Concen: 19.495 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 93 Resp: 129319

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.5	98.3
174	88.9	69.0	103.4



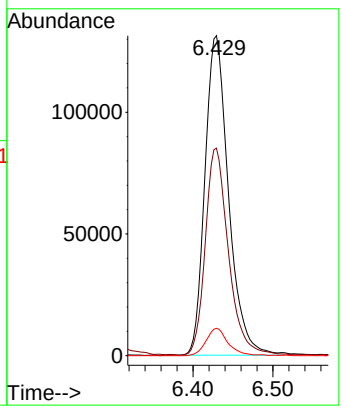


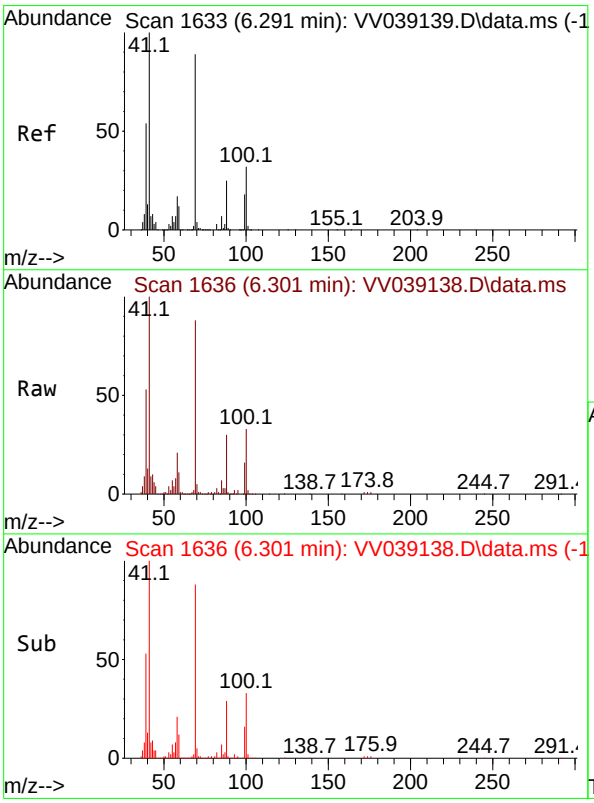
#47
Bromodichloromethane
Concen: 19.635 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 269262

Ion	Ratio	Lower	Upper
83	100		
85	64.7	49.7	74.5
127	8.6	6.6	9.8

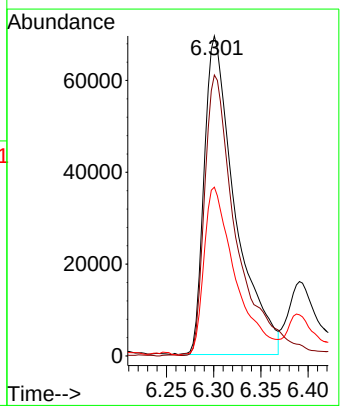


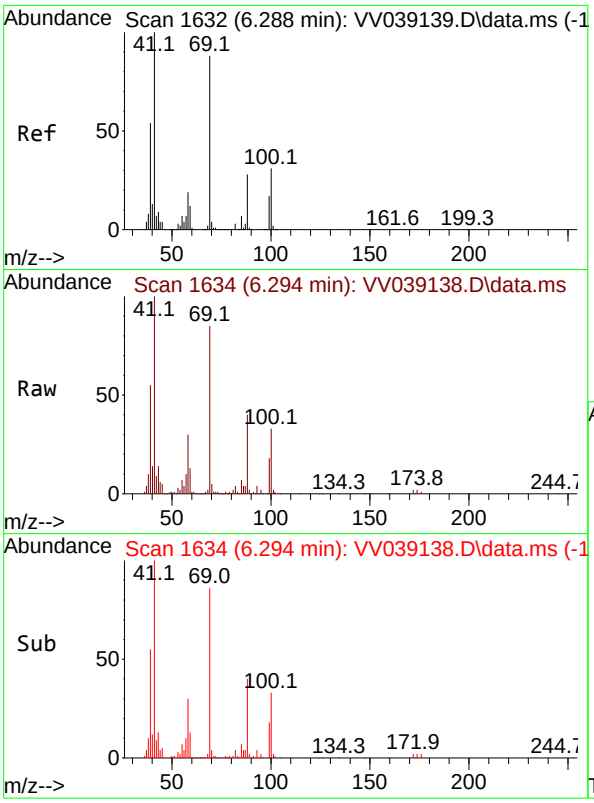


#48
Methyl methacrylate
Concen: 18.977 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 41 Resp: 158251

Ion	Ratio	Lower	Upper
41	100		
69	91.6	72.4	108.6
39	53.4	42.5	63.7



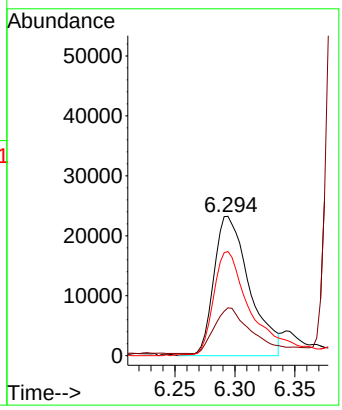


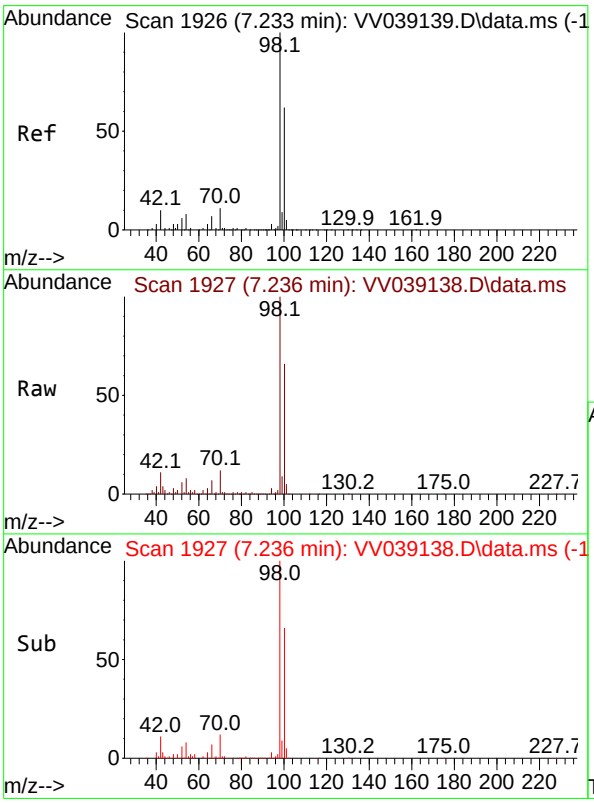
#49
1,4-Dioxane
Concen: 365.172 ug/l
RT: 6.294 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 47860

Ion	Ratio	Lower	Upper
88	100		
43	36.7	25.1	37.7
58	80.9	53.6	80.4#

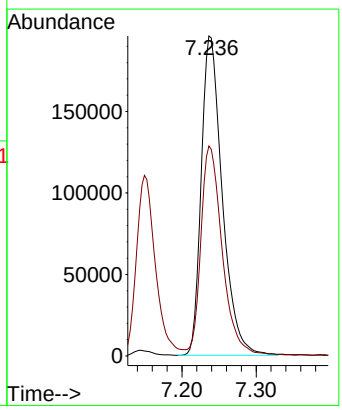


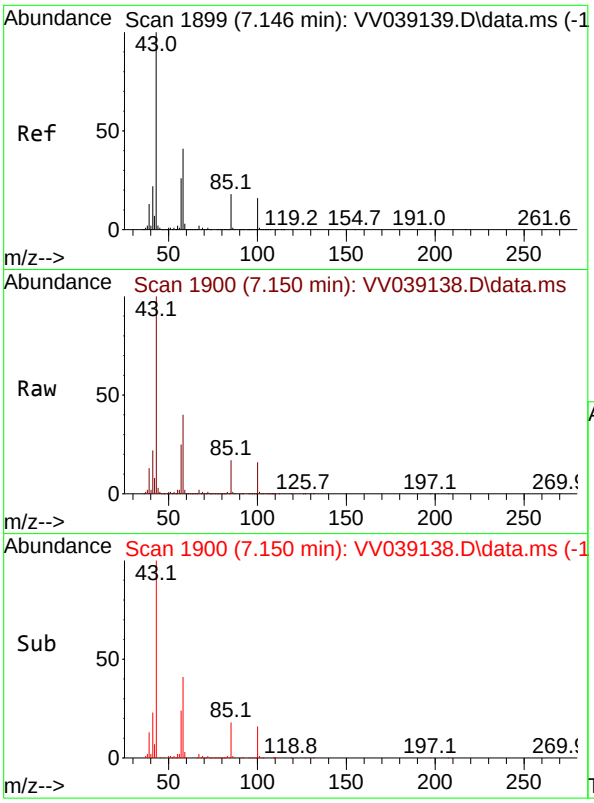


#50
Toluene-d8
Concen: 18.501 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 98 Resp: 384827

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.2	78.2



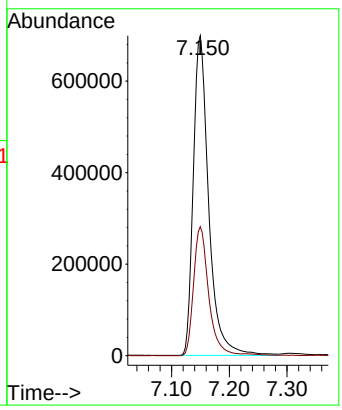


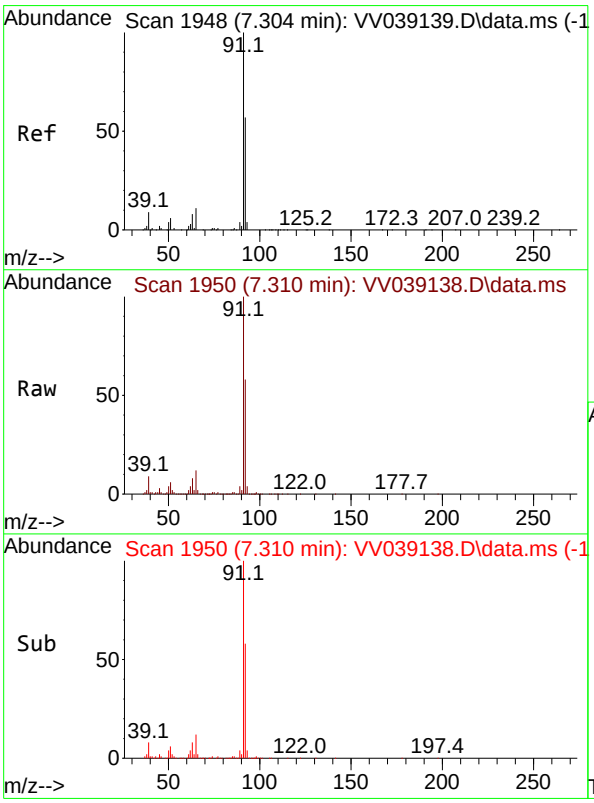
#51
4-Methyl-2-Pentanone
Concen: 111.268 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 1296796

Ion	Ratio	Lower	Upper
43	100		
58	39.2	32.3	48.5

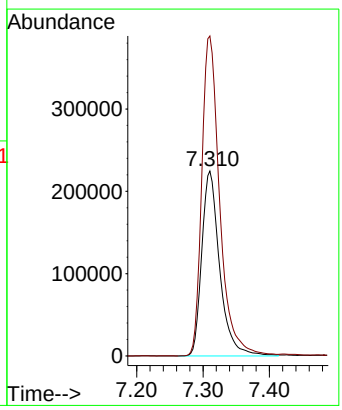


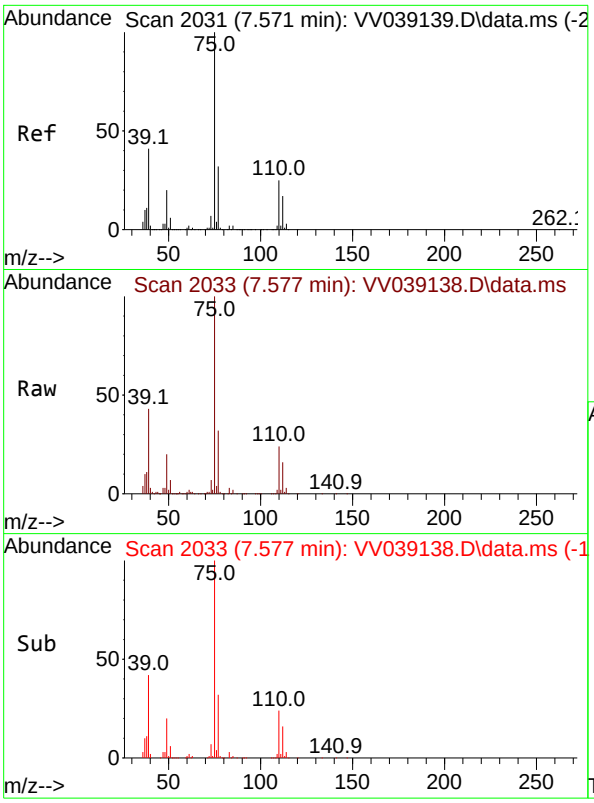


#52
Toluene
Concen: 20.892 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 92 Resp: 422367

Ion	Ratio	Lower	Upper
92	100		
91	173.4	139.2	208.8



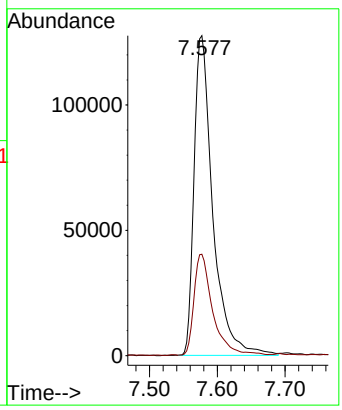


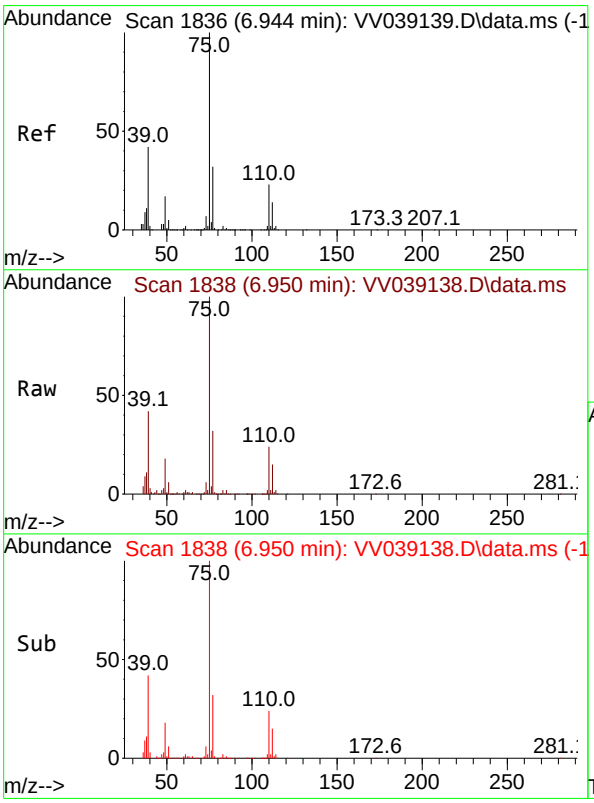
#53
t-1,3-Dichloropropene
Concen: 20.516 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 245181

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.9	38.9

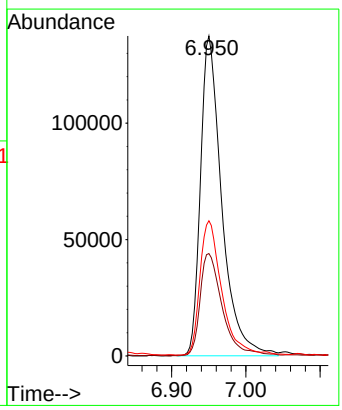


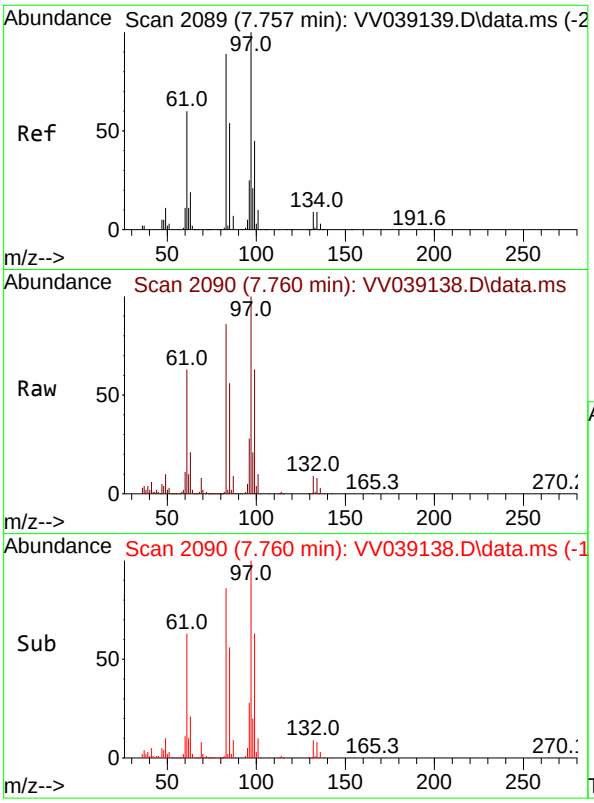


#54
cis-1,3-Dichloropropene
Concen: 20.761 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 273906

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.5	38.3
39	42.0	33.8	50.6



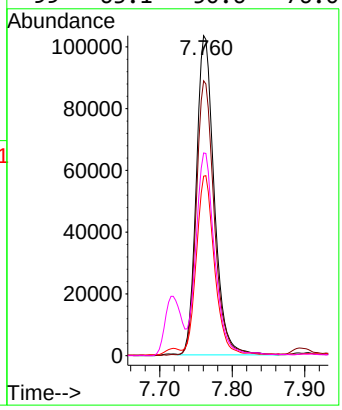


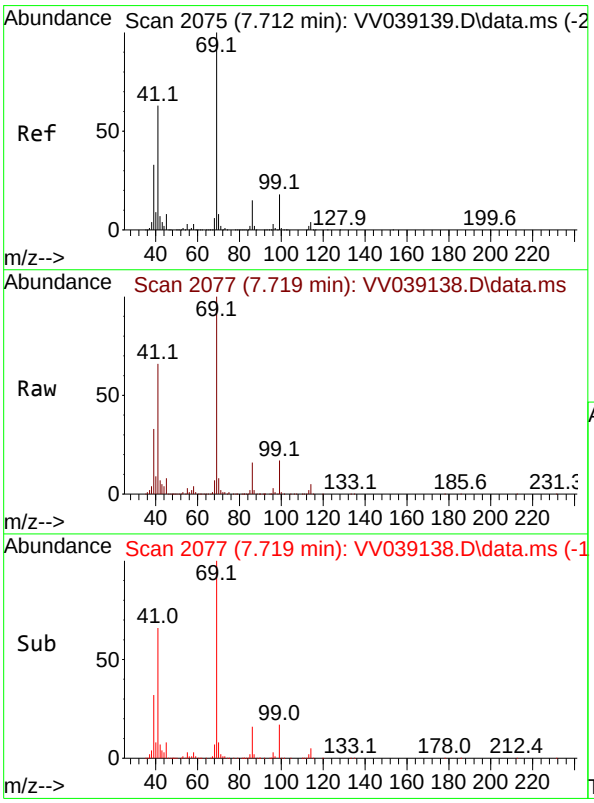
#55
1,1,2-Trichloroethane
Concen: 19.505 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 176812

Ion	Ratio	Lower	Upper
97	100		
83	85.9	71.1	106.7
85	55.6	44.6	67.0
99	63.1	50.6	76.0

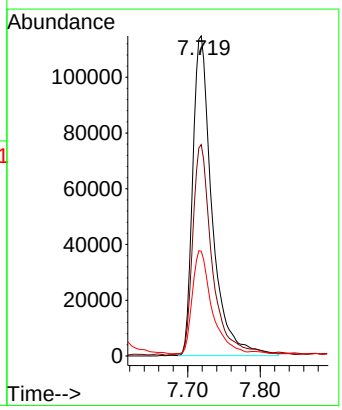


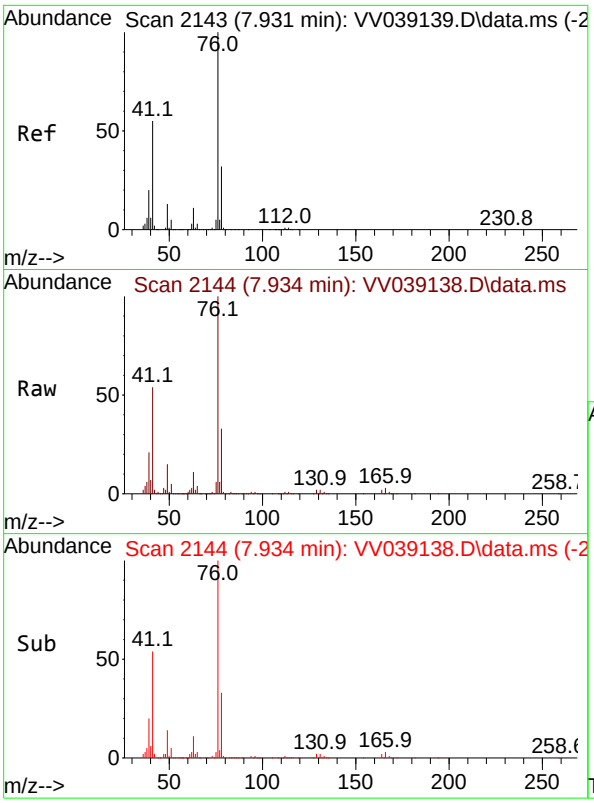


#56
Ethyl methacrylate
Concen: 19.723 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 69 Resp: 212320

Ion	Ratio	Lower	Upper
69	100		
41	66.2	50.7	76.1
39	32.3	26.0	39.0



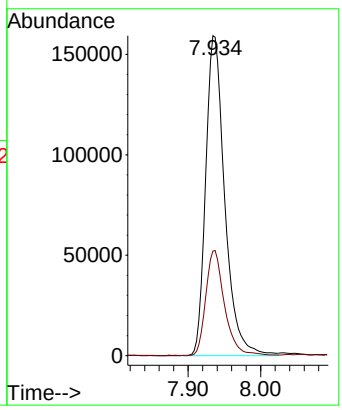


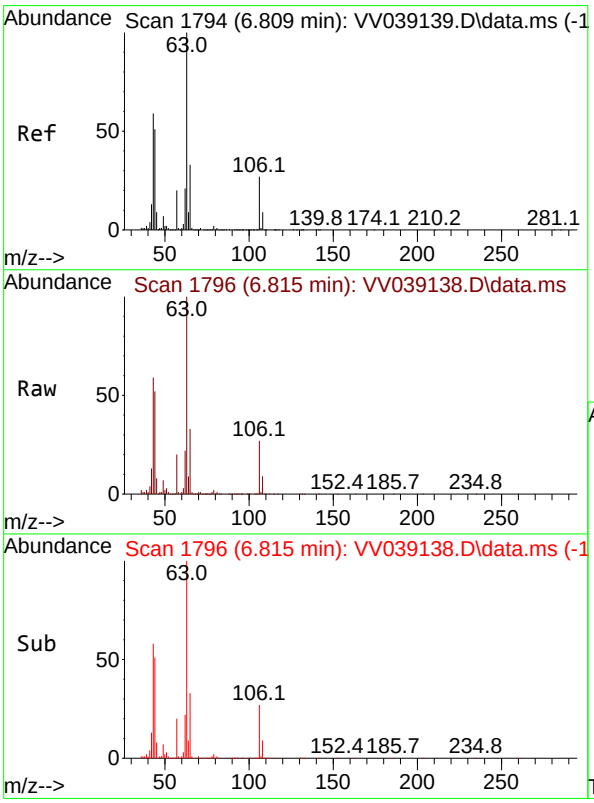
#57
1,3-Dichloropropane
Concen: 20.363 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 291304

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.1	39.1

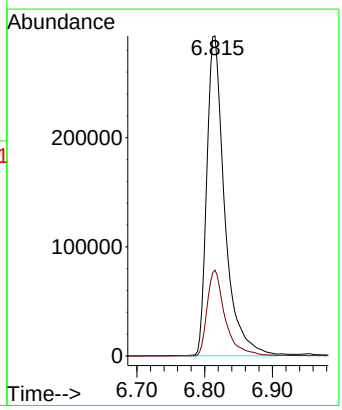


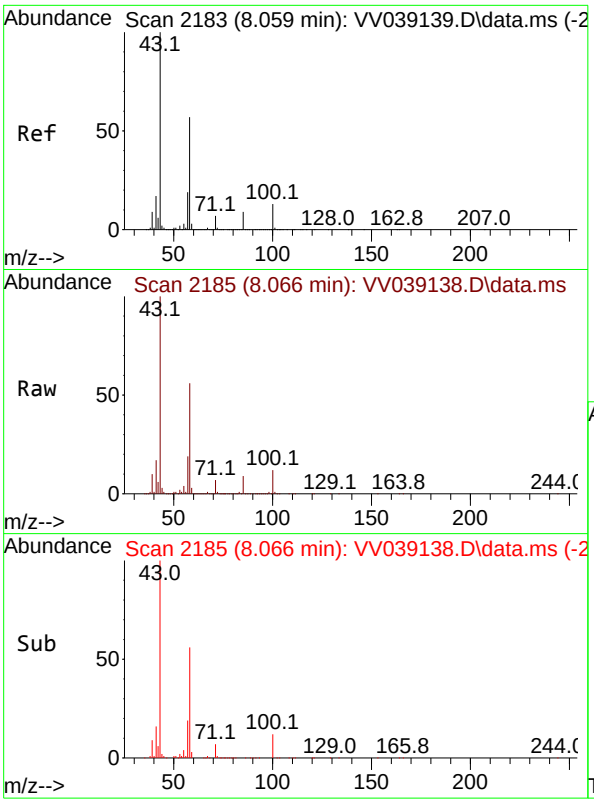


#58
2-Chloroethyl Vinyl ether
Concen: 94.274 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 63 Resp: 536254

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.1	33.1



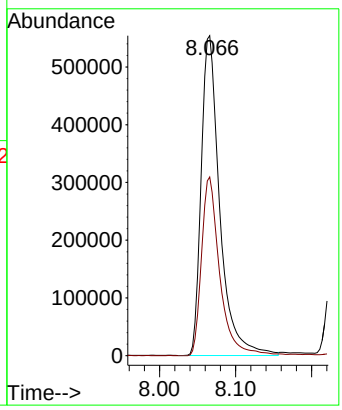


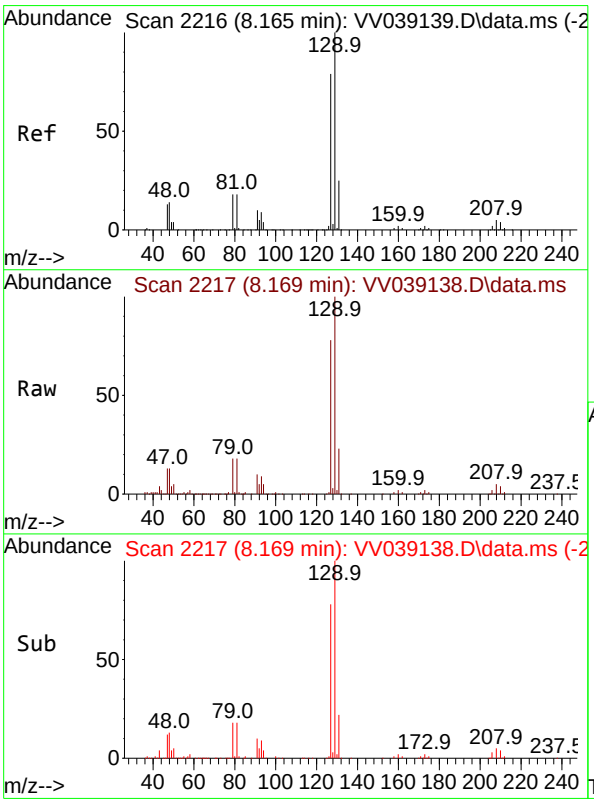
#59
2-Hexanone
Concen: 101.225 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 940265

Ion	Ratio	Lower	Upper
43	100		
58	55.0	28.3	85.0

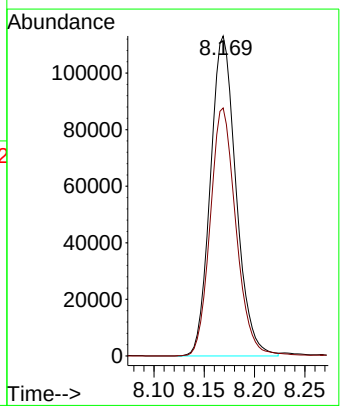


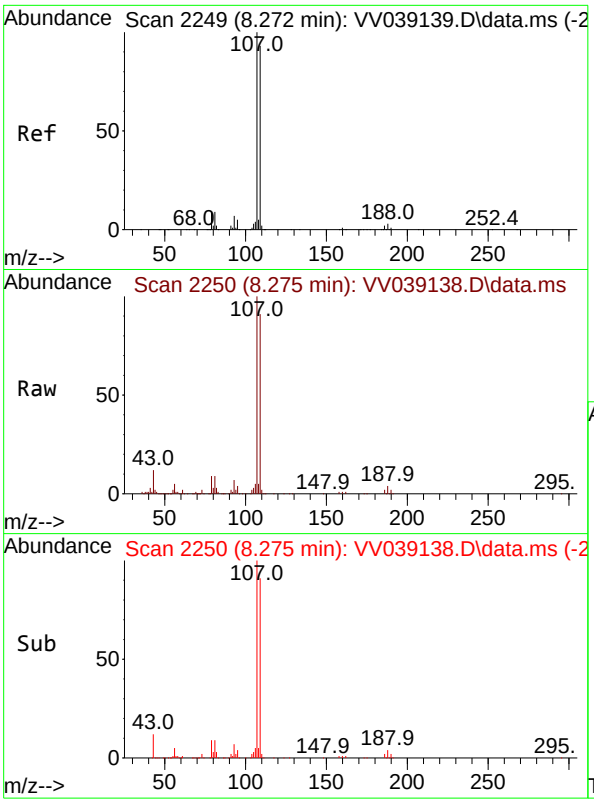


#60
Dibromochloromethane
Concen: 19.440 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:129 Resp: 200793

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.3	117.9



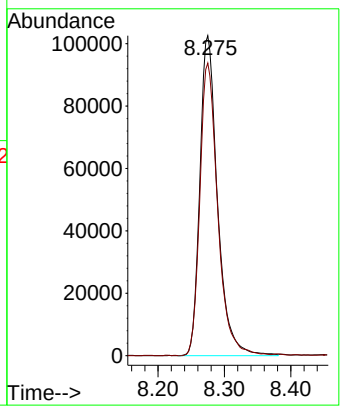


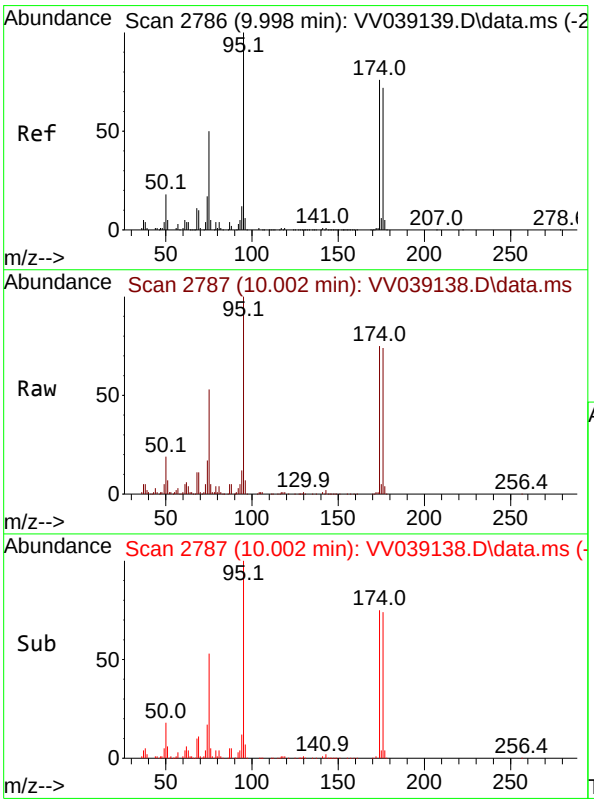
#61
1,2-Dibromoethane
Concen: 20.447 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 189555

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.6	112.0

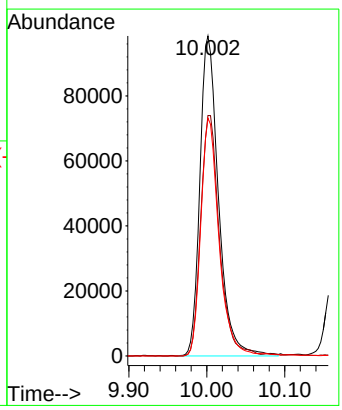


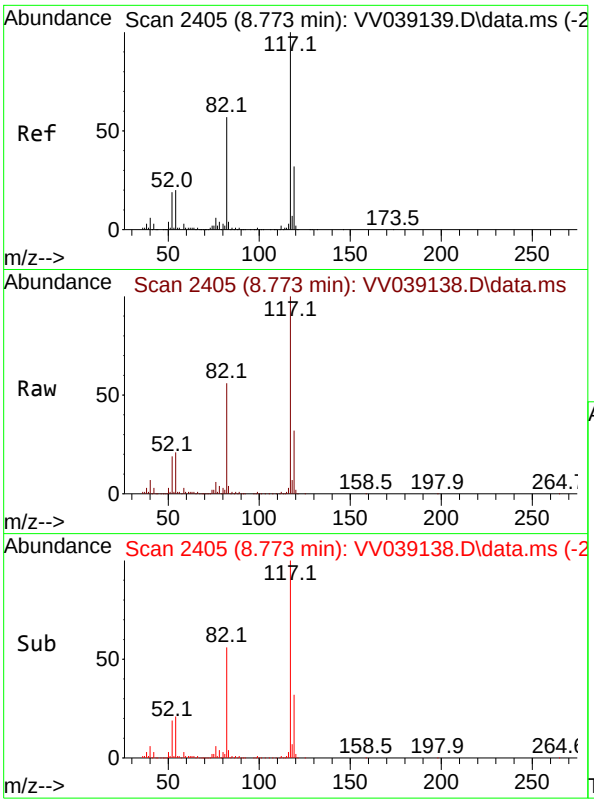


#62
4-Bromofluorobenzene
Concen: 19.105 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 95 Resp: 163597

Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	150.4
176	72.3	0.0	144.2



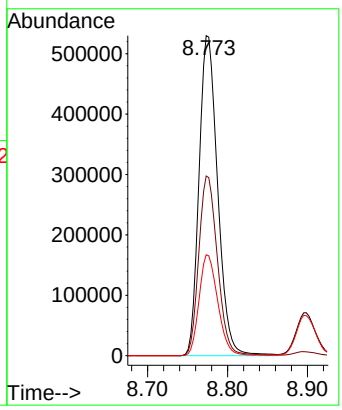


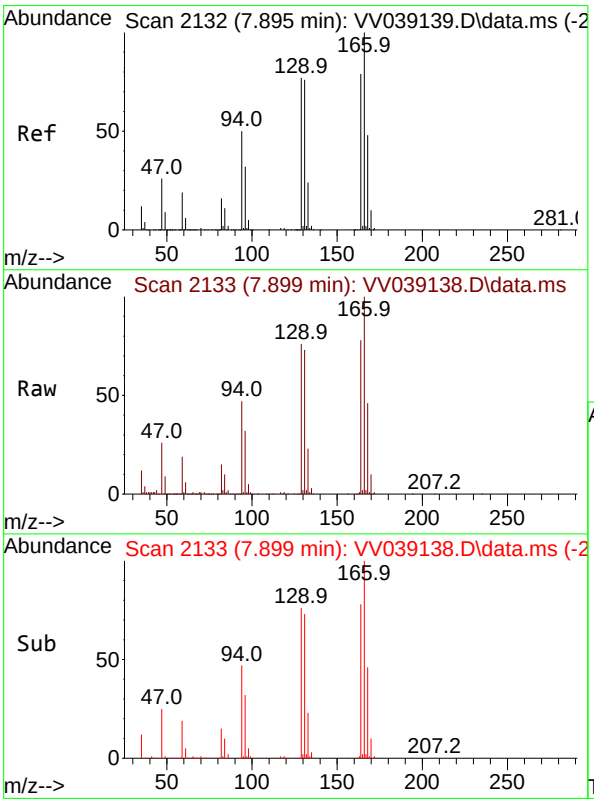
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 860340

Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.4	68.2
119	31.5	25.6	38.4

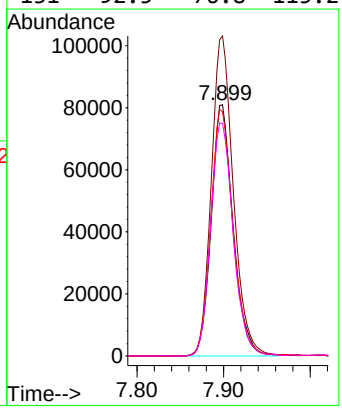


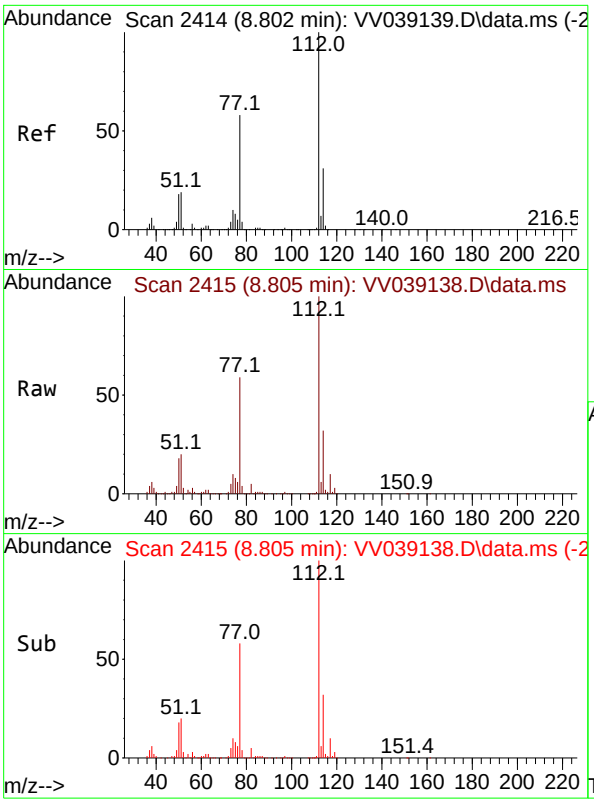


#64
Tetrachloroethene
Concen: 19.688 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:164 Resp: 141876

Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.6	152.4
129	97.2	78.5	117.7
131	92.5	76.8	115.2



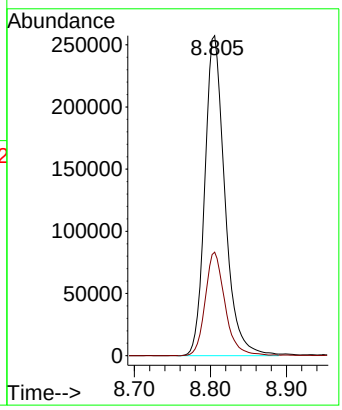


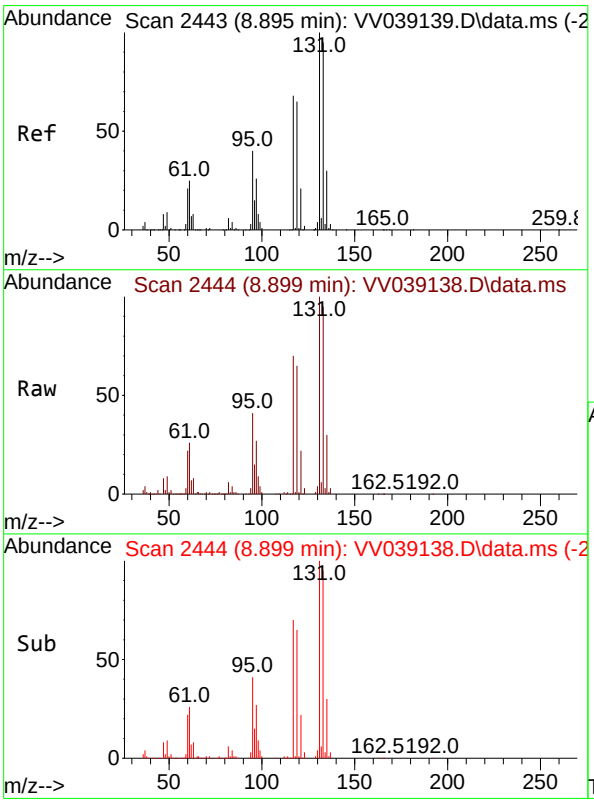
#65
Chlorobenzene
Concen: 19.648 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 470841

Ion	Ratio	Lower	Upper
112	100		
114	32.4	24.6	37.0

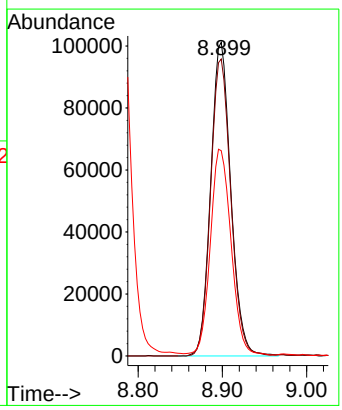


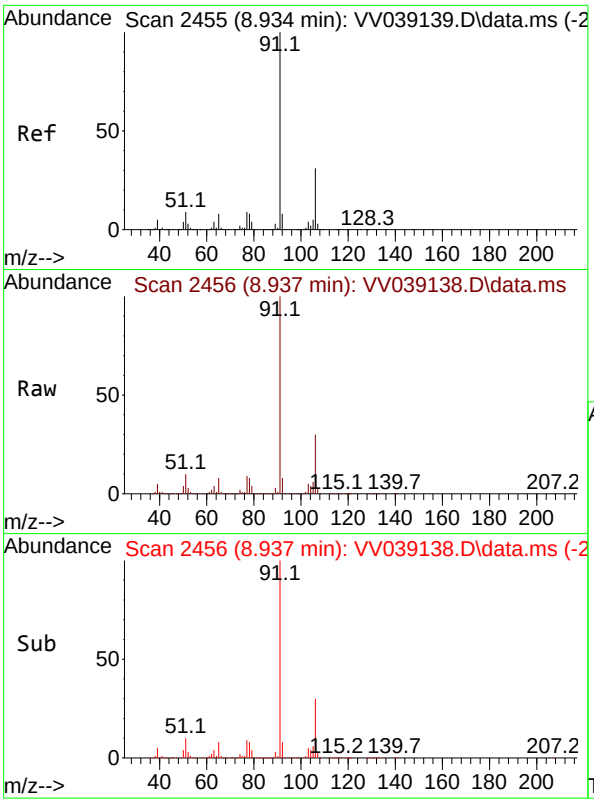


#66
1,1,1,2-Tetrachloroethane
Concen: 19.395 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:131 Resp: 167936

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	141.8
119	67.8	33.3	99.8



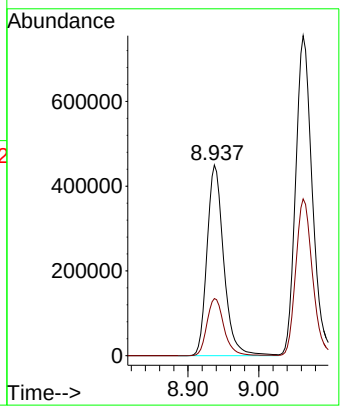


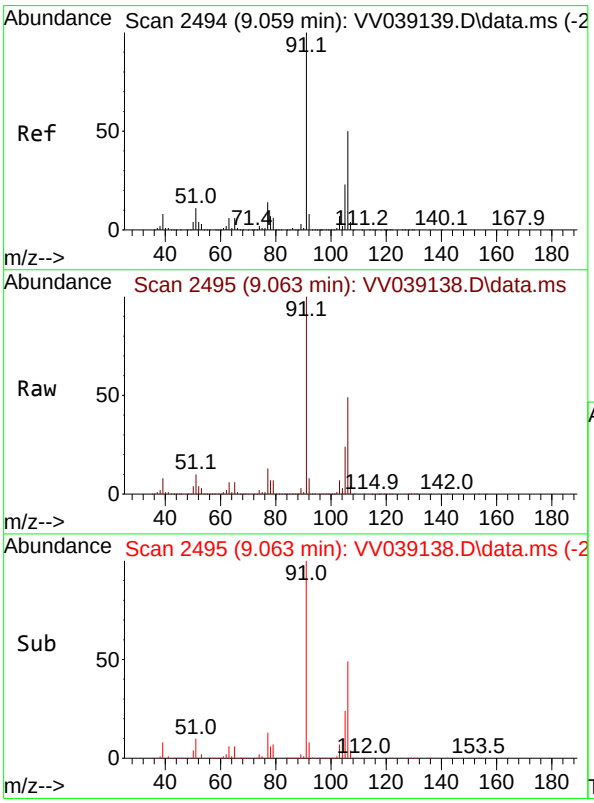
#67
Ethyl Benzene
Concen: 20.328 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 737391

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.6	37.0

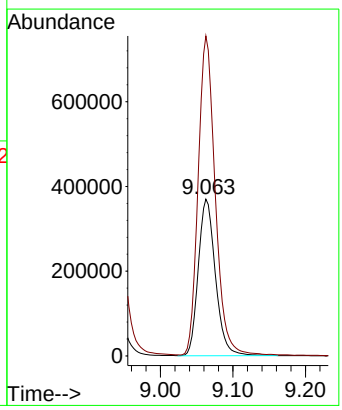


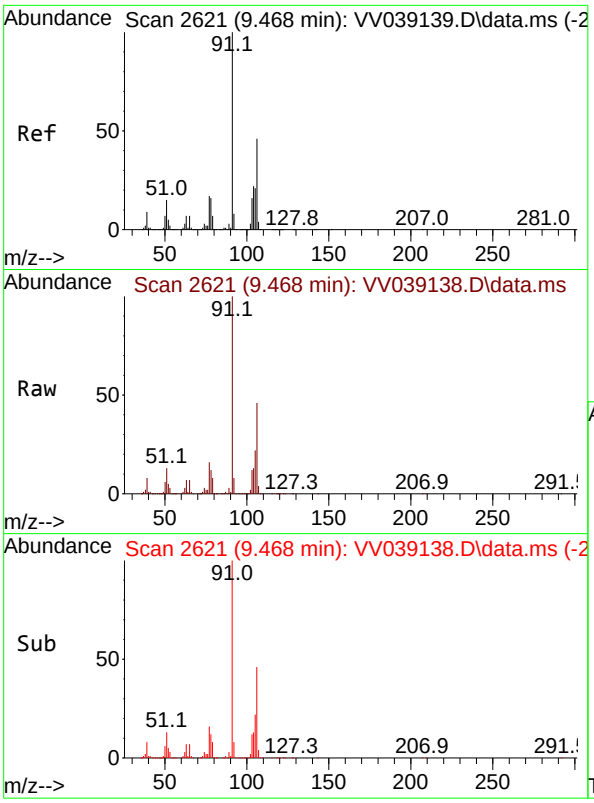


#68
m/p-Xylenes
Concen: 43.381 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:106 Resp: 607362

Ion	Ratio	Lower	Upper
106	100		
91	201.7	162.5	243.7



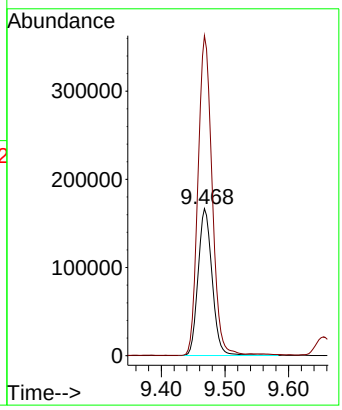


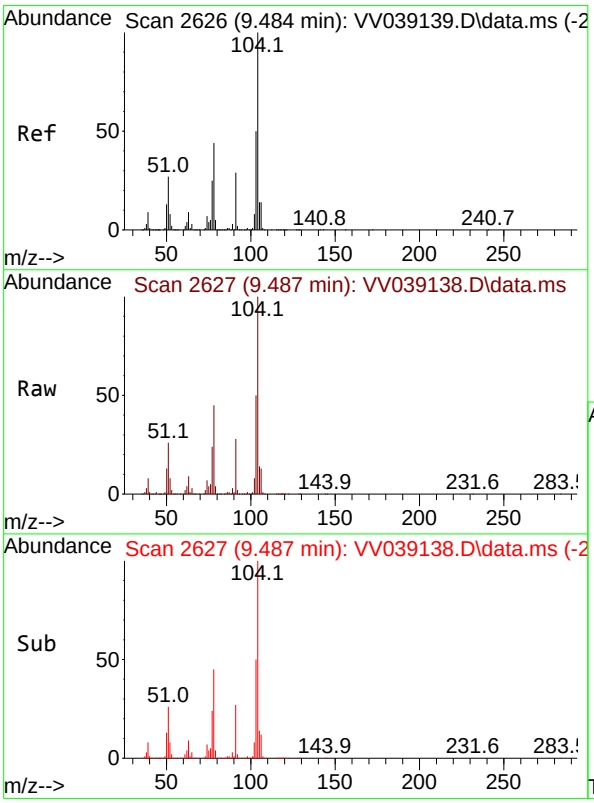
#69
o-Xylene
Concen: 20.587 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 255212

Ion	Ratio	Lower	Upper
106	100		
91	218.4	109.1	327.3

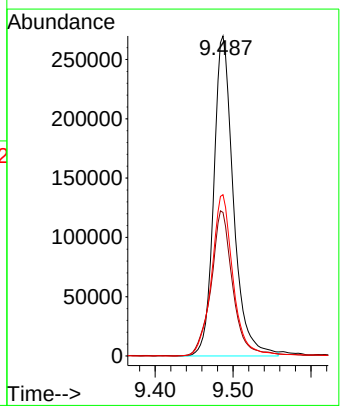


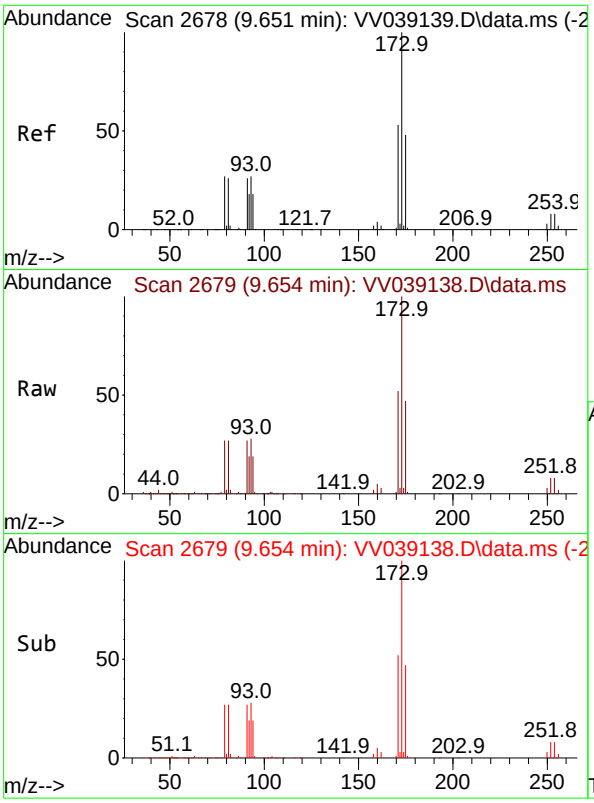


#70
Styrene
Concen: 19.022 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:104 Resp: 475382

Ion	Ratio	Lower	Upper
104	100		
78	50.0	39.8	59.6
103	55.1	43.4	65.2



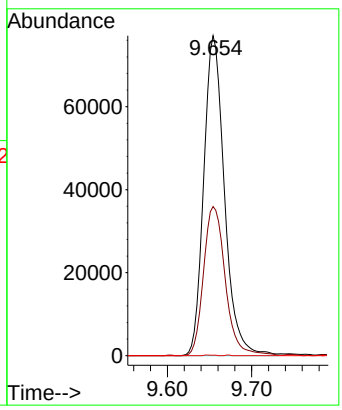


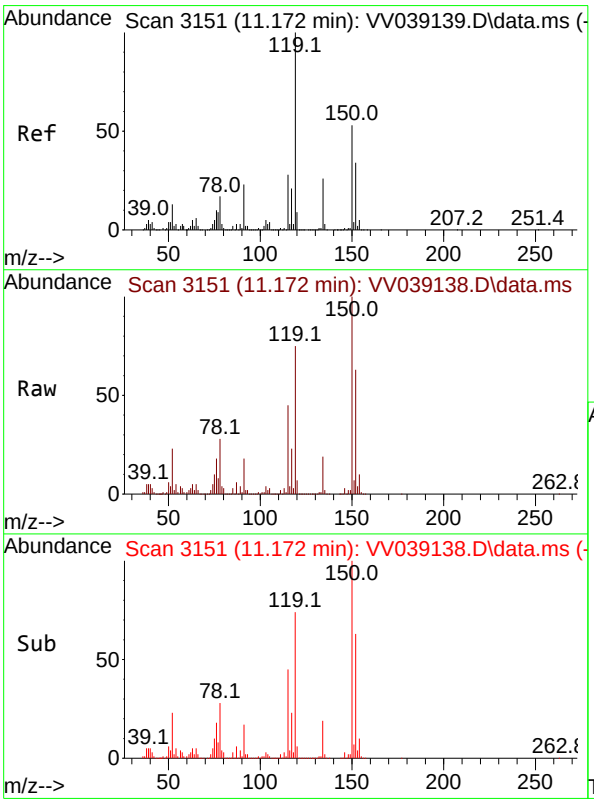
#71
Bromoform
Concen: 19.552 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 132242

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.7
254	0.1	0.1	0.1

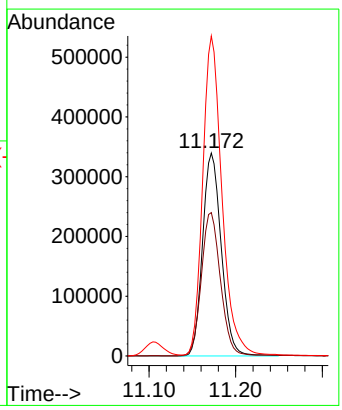


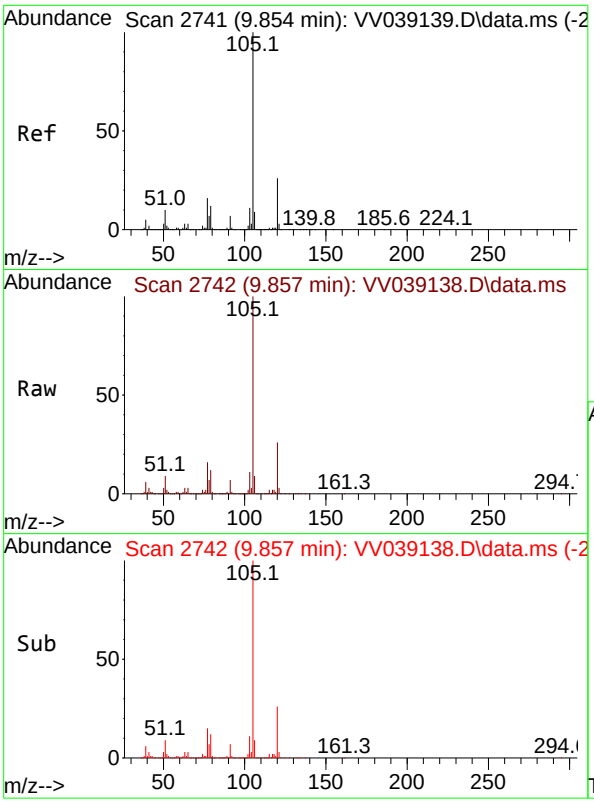


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:152 Resp: 509460

Ion	Ratio	Lower	Upper
152	100		
115	72.2	44.8	134.4
150	163.4	0.0	353.8



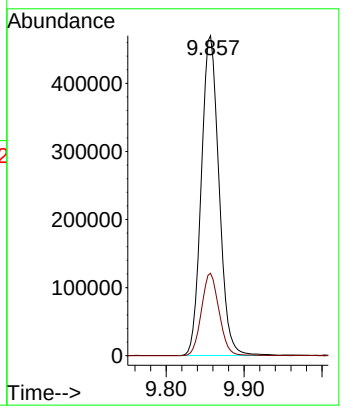


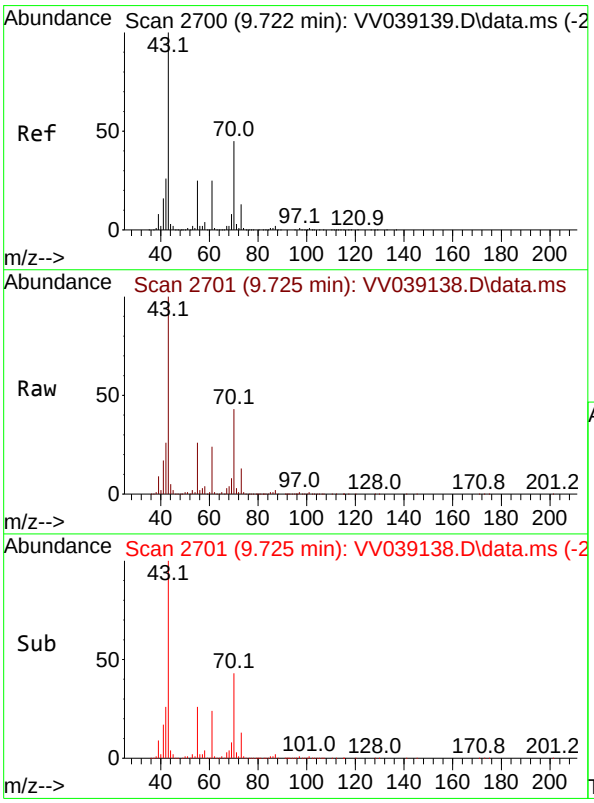
#73
Isopropylbenzene
Concen: 20.062 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 741305

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.1	39.1

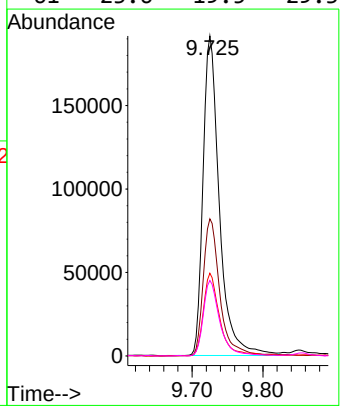


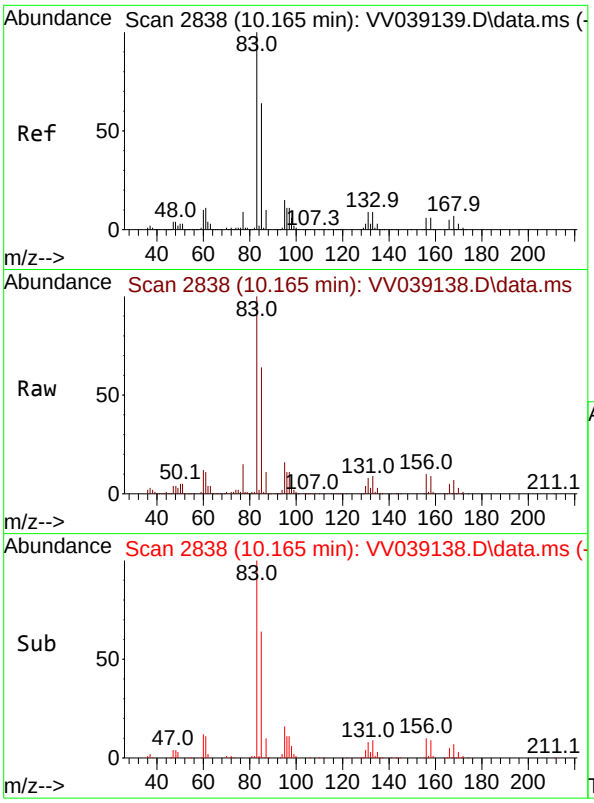


#74
N-amyl acetate
Concen: 20.826 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 306963

Ion	Ratio	Lower	Upper
43	100		
70	43.4	35.4	53.0
55	25.0	20.6	30.8
61	23.6	19.5	29.3



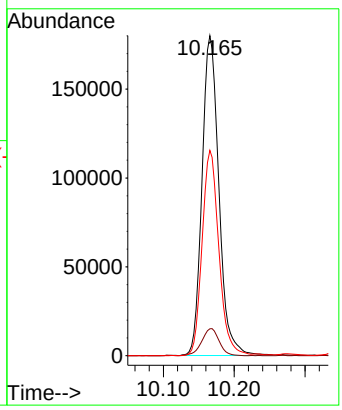


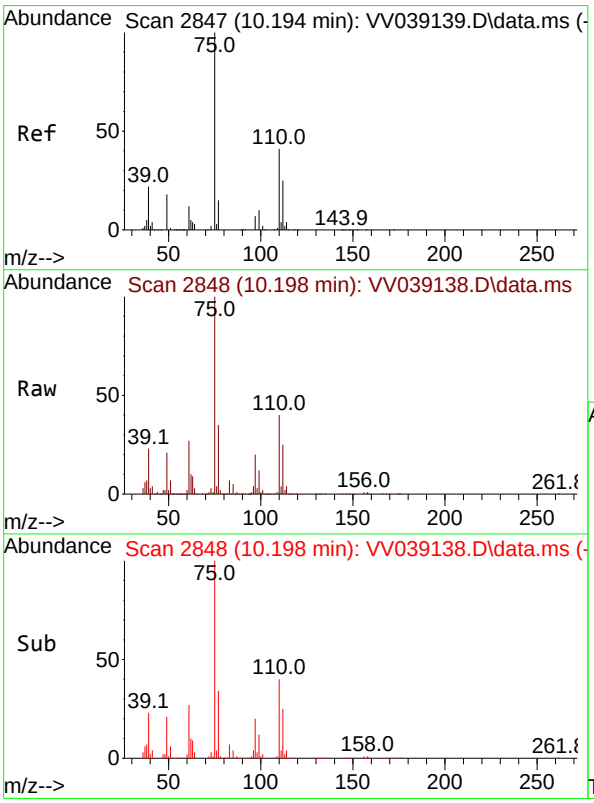
#75
1,1,2,2-Tetrachloroethane
Concen: 18.390 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 297741

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.7
85	63.7	31.9	95.9

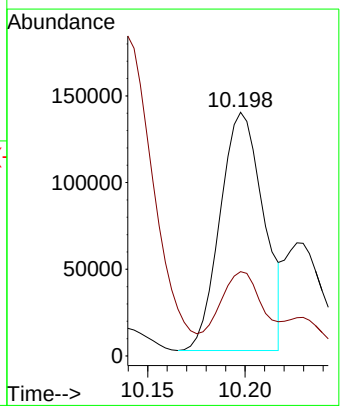


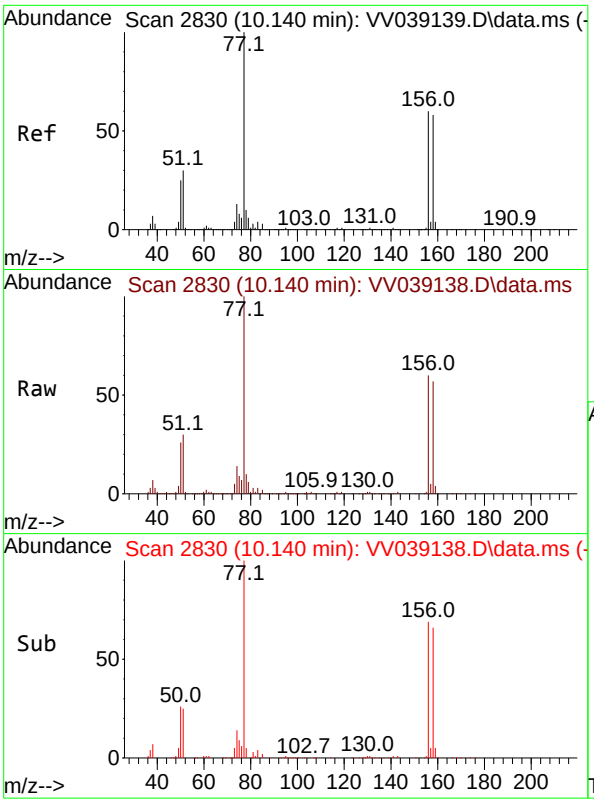


#76
1,2,3-Trichloropropane
Concen: 18.409 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 213532

Ion	Ratio	Lower	Upper
75	100		
77	22.1	11.3	33.8



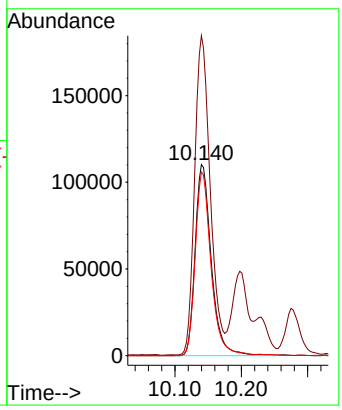


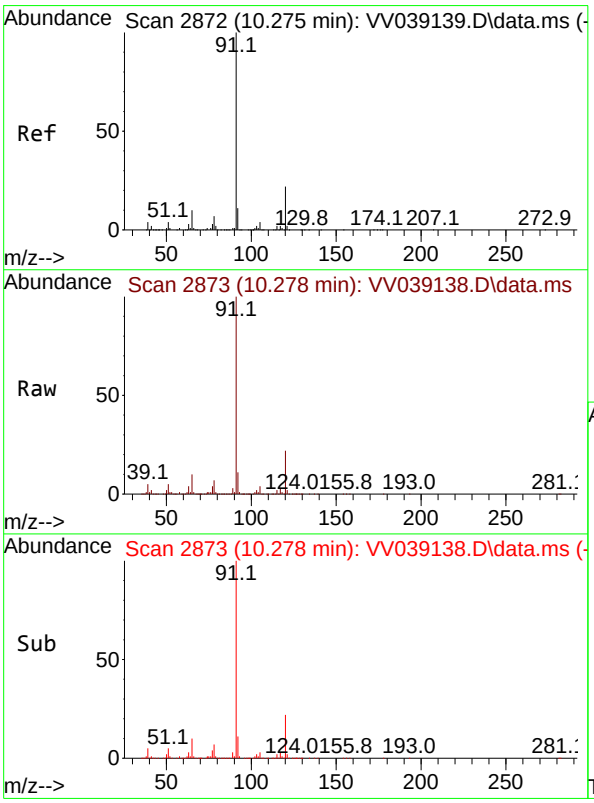
#77
Bromobenzene
Concen: 19.525 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 187188

Ion	Ratio	Lower	Upper
156	100		
77	160.4	83.4	250.1
158	93.6	48.8	146.4

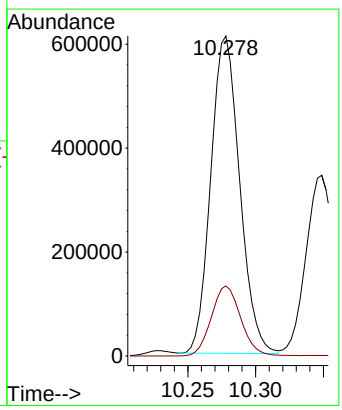


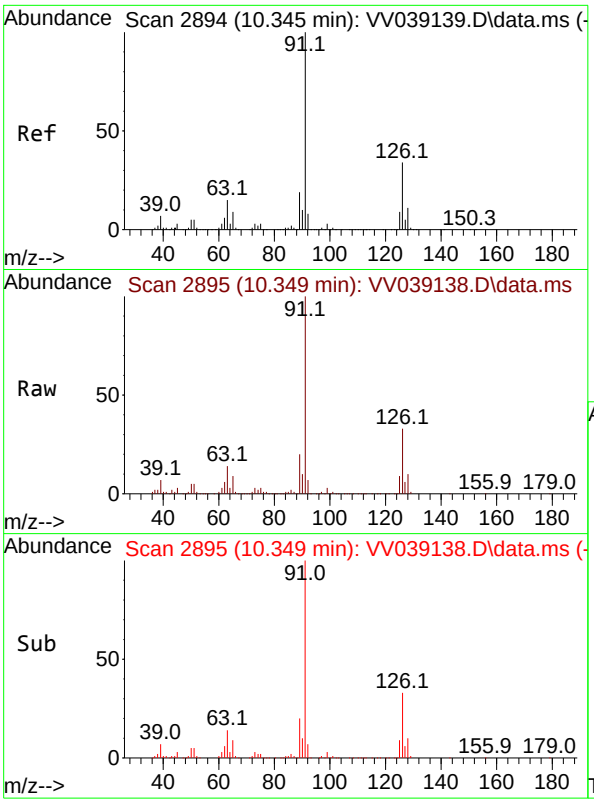


#78
n-propylbenzene
Concen: 20.118 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 91 Resp: 905281

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



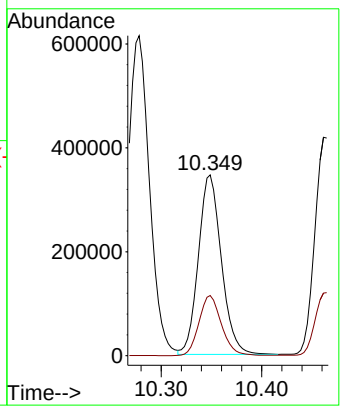


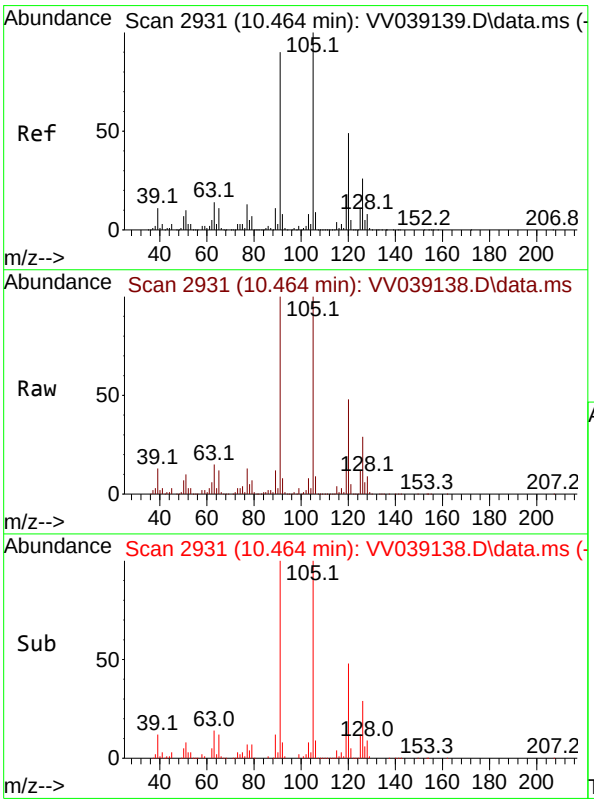
#79
2-Chlorotoluene
Concen: 20.346 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 547836

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.7	50.0

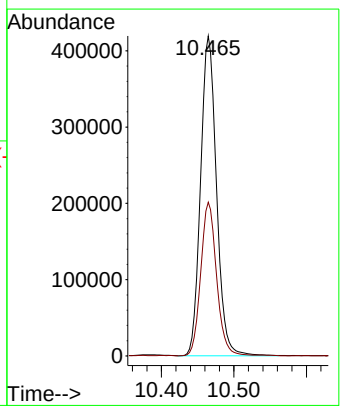


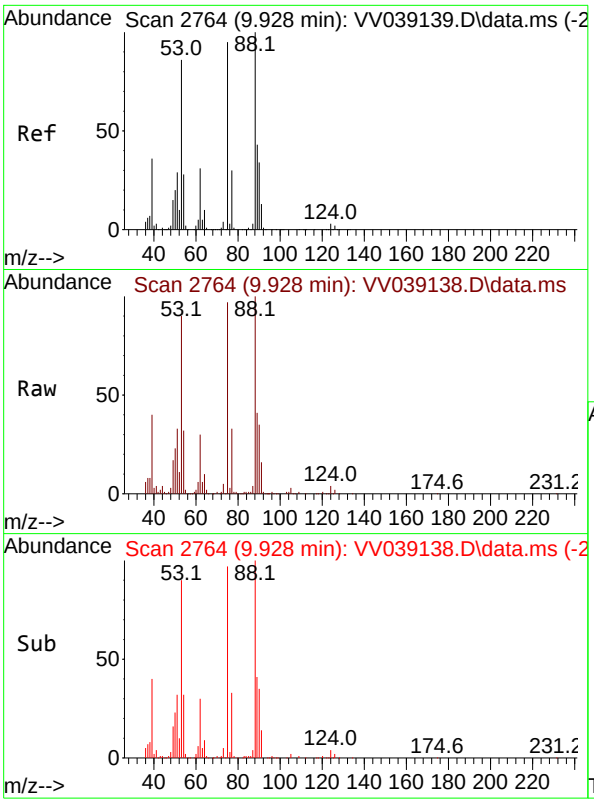


#80
1,3,5-Trimethylbenzene
Concen: 20.843 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:105 Resp: 640175

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.3	72.8



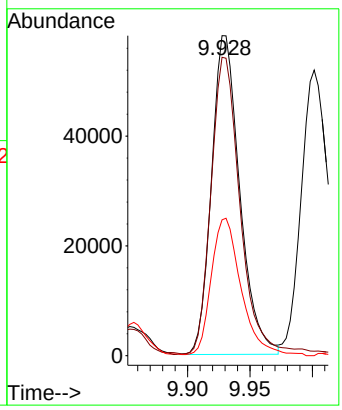


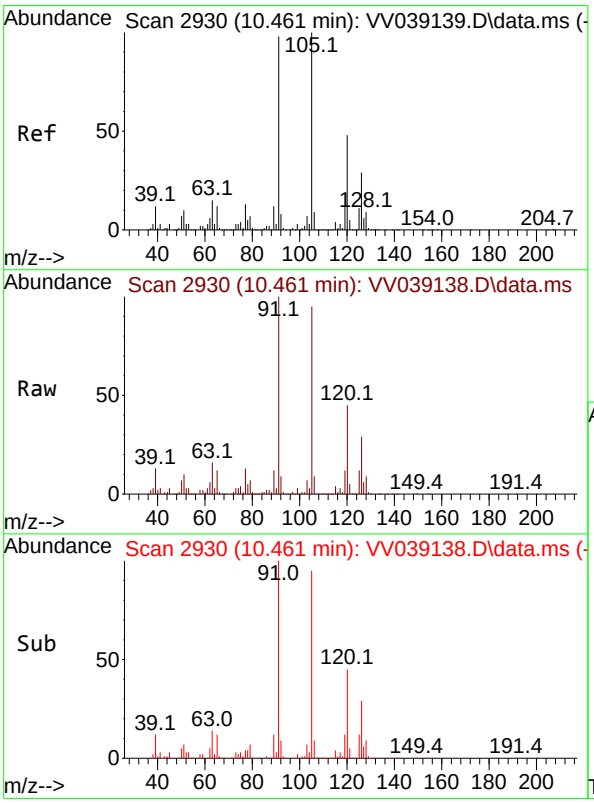
#81
trans-1,4-Dichloro-2-butene
Concen: 19.009 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 91848

Ion	Ratio	Lower	Upper
75	100		
53	95.8	72.5	108.7
89	45.7	37.2	55.8

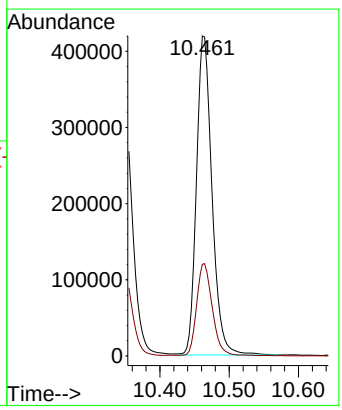


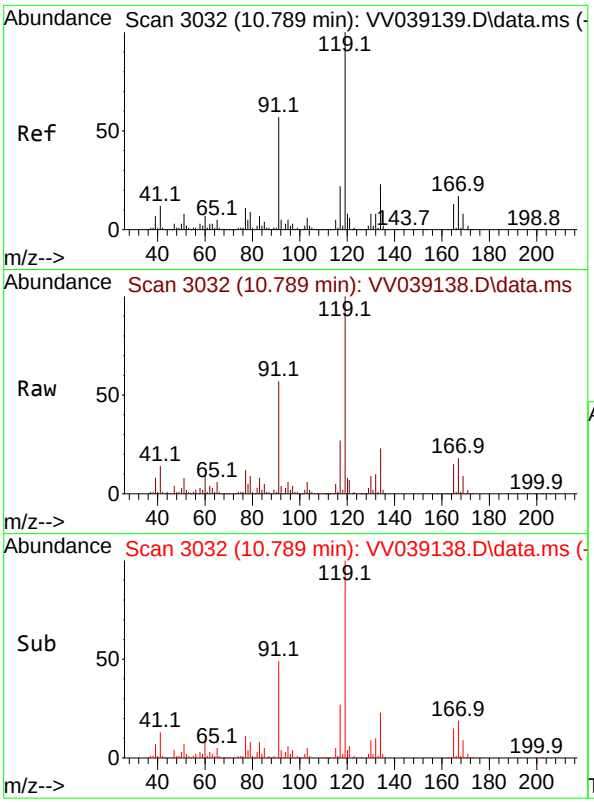


#82
4-Chlorotoluene
Concen: 20.993 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 91 Resp: 655427

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.5	43.6



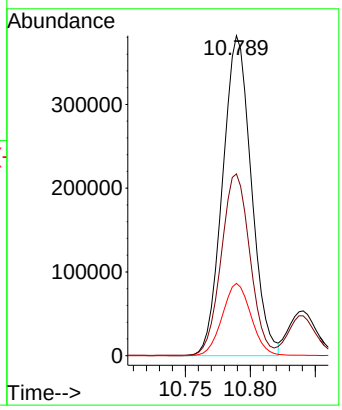


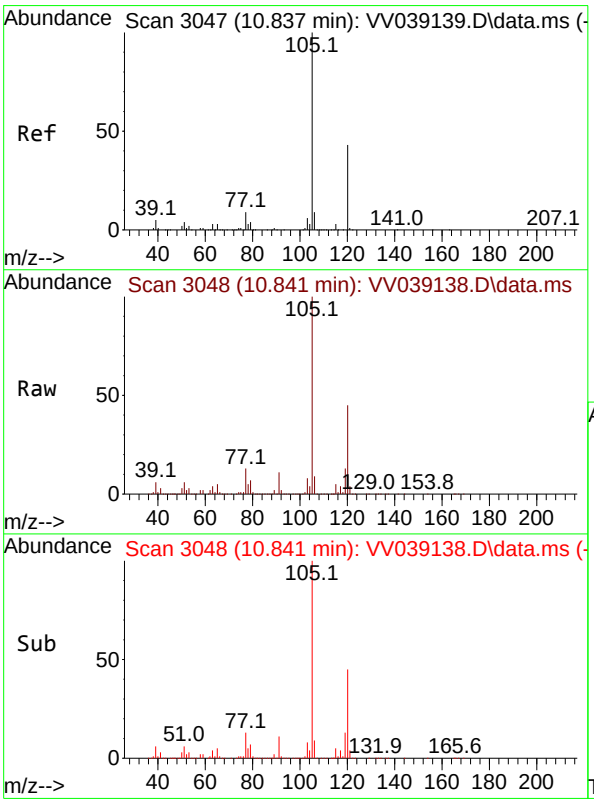
#83
tert-Butylbenzene
Concen: 19.172 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 587151

Ion	Ratio	Lower	Upper
119	100		
91	56.6	28.5	85.6
134	22.8	11.5	34.4

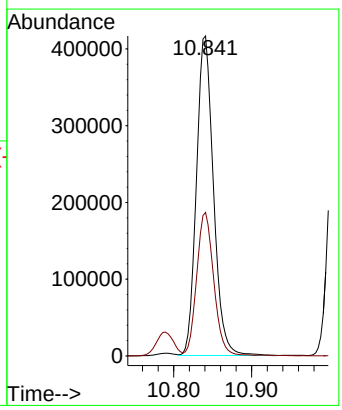


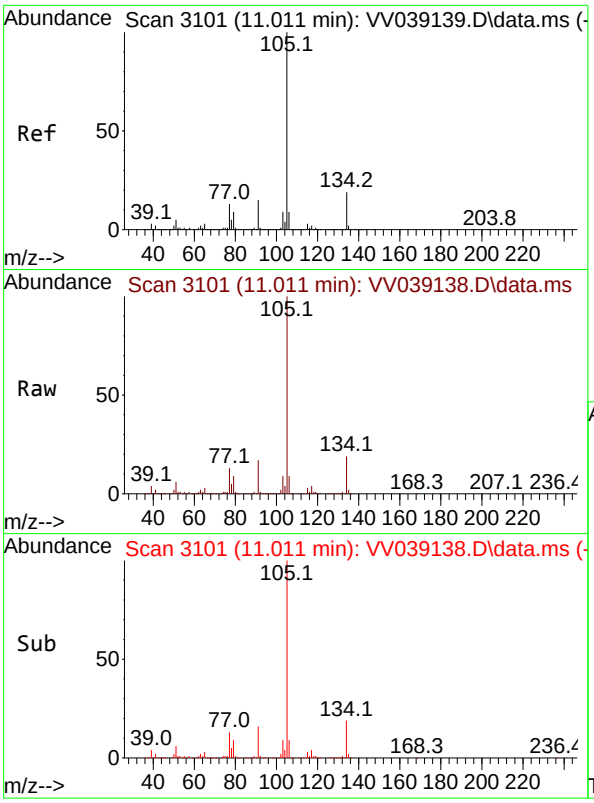


#84
1,2,4-Trimethylbenzene
Concen: 21.185 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:105 Resp: 631679

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.4	67.2



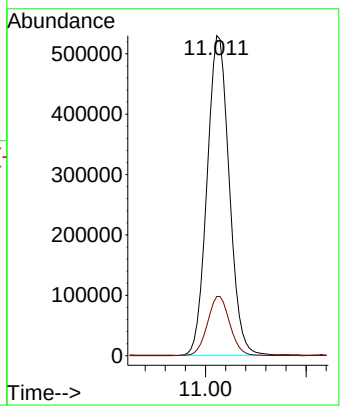


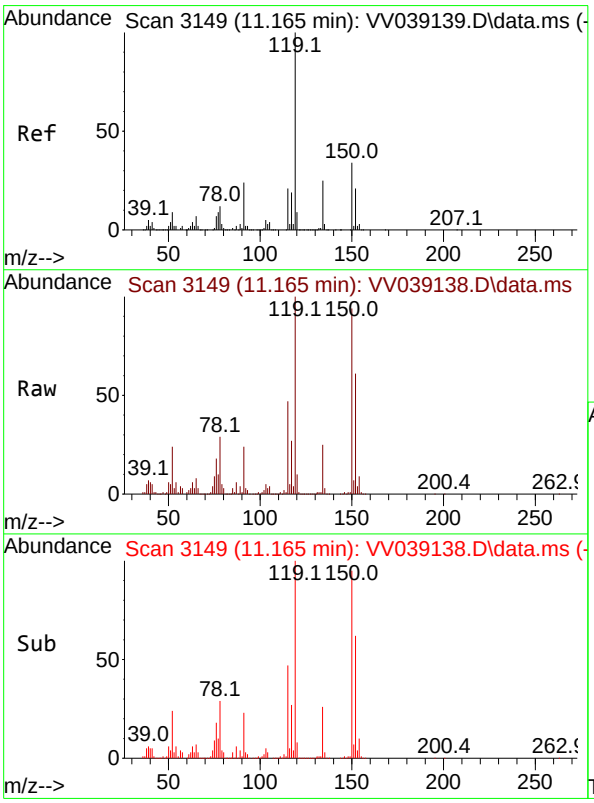
#85
sec-Butylbenzene
Concen: 19.912 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 808869

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.6	28.8

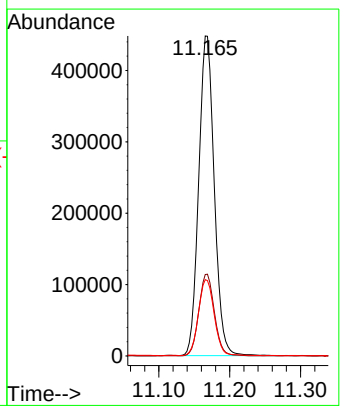


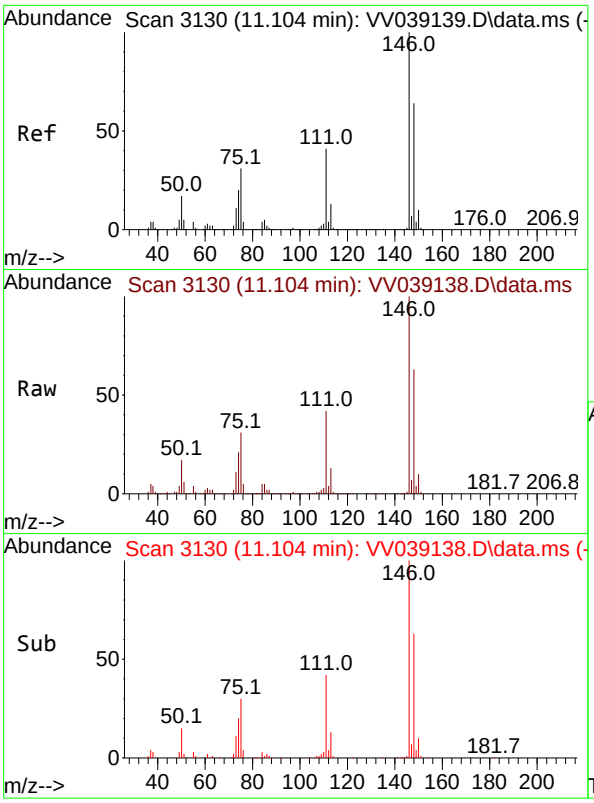


#86
p-Isopropyltoluene
Concen: 20.196 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:119 Resp: 682814

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.7	38.0
91	24.1	12.0	36.1



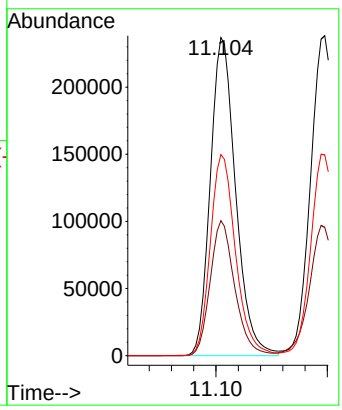


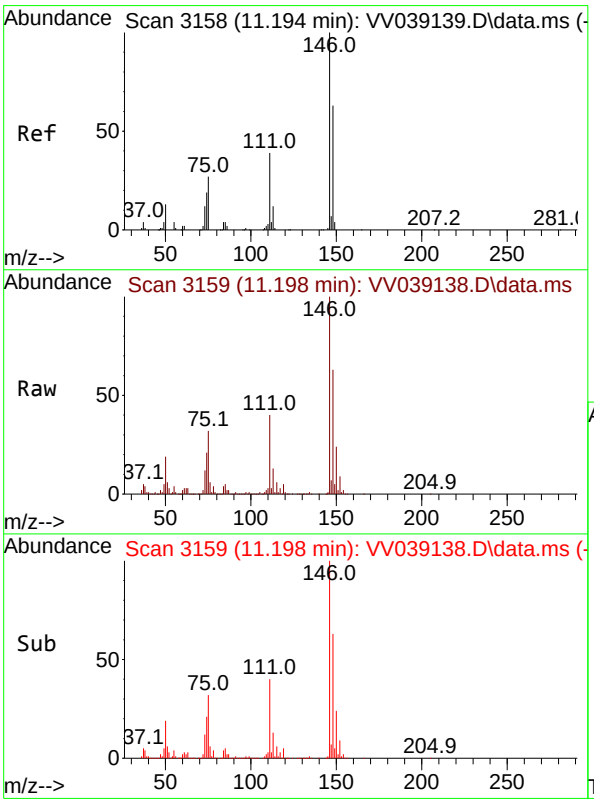
#87
1,3-Dichlorobenzene
Concen: 19.287 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 374208

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.9	62.8
148	63.1	31.8	95.3

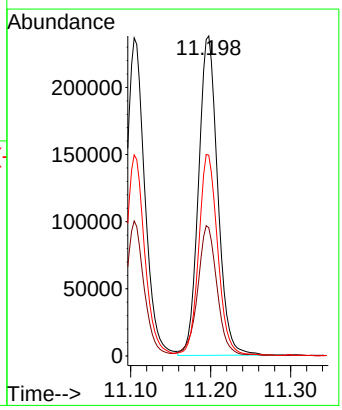


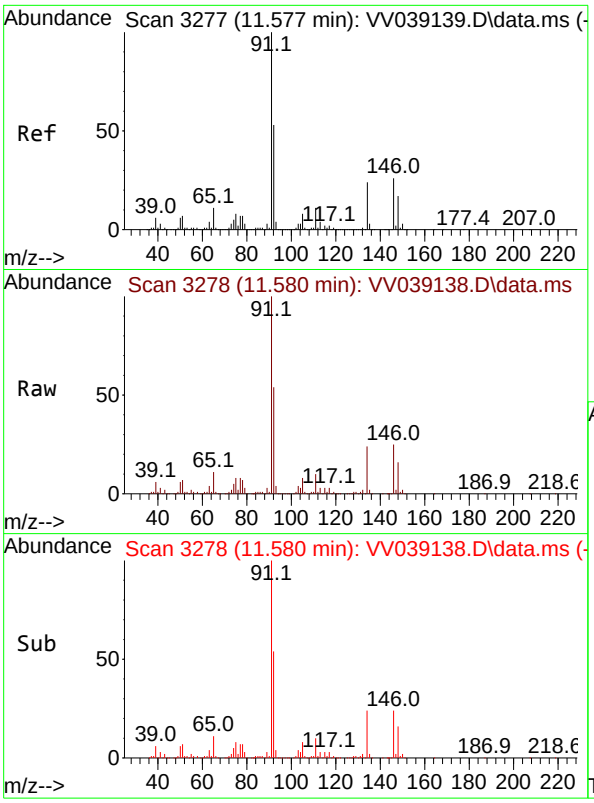


#88
1,4-Dichlorobenzene
Concen: 18.539 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:146 Resp: 397526

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.3	60.8
148	62.8	31.4	94.2



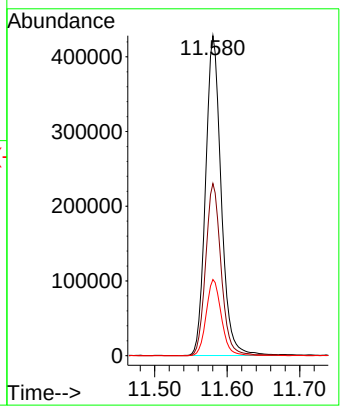


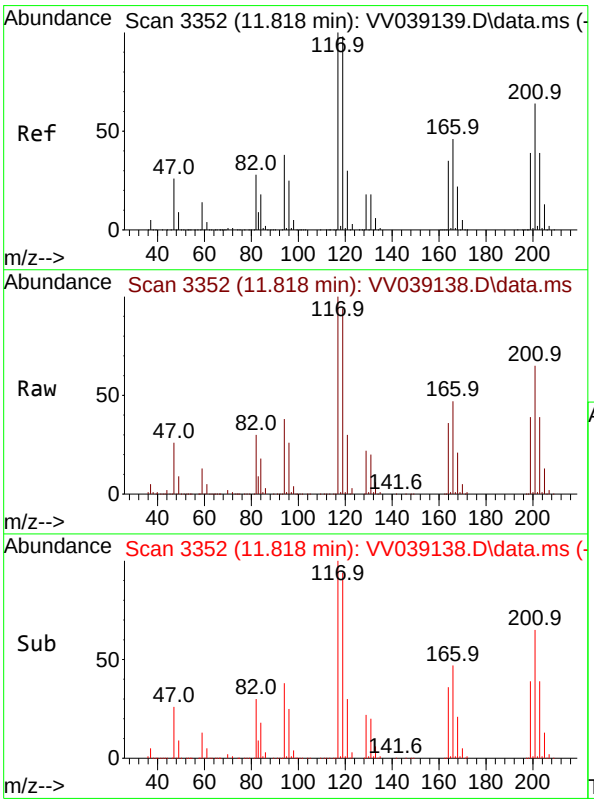
#89
n-Butylbenzene
Concen: 19.822 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 640044

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.8
134	23.1	12.1	36.3

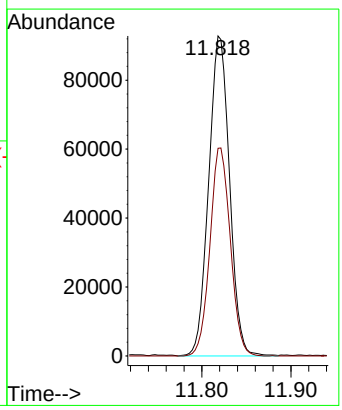


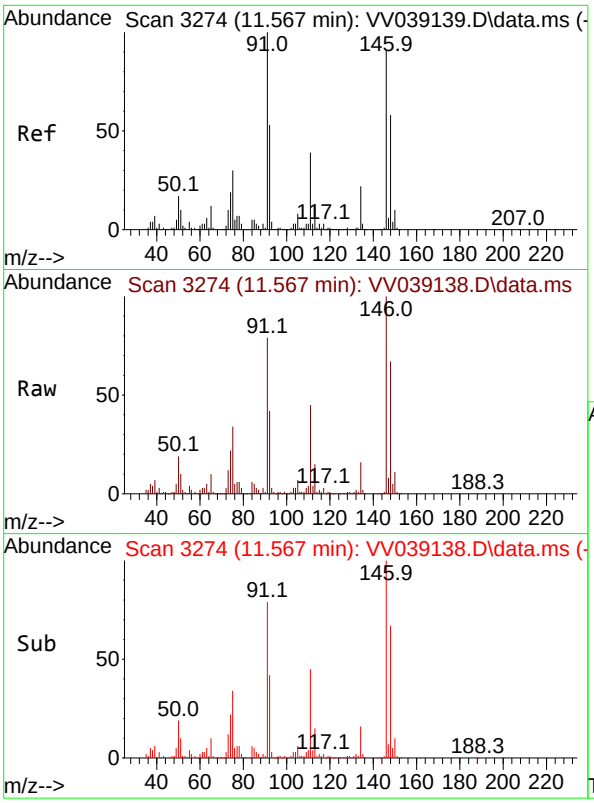


#90
Hexachloroethane
Concen: 18.118 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:117 Resp: 150843

Ion	Ratio	Lower	Upper
117	100		
201	63.5	32.3	96.8



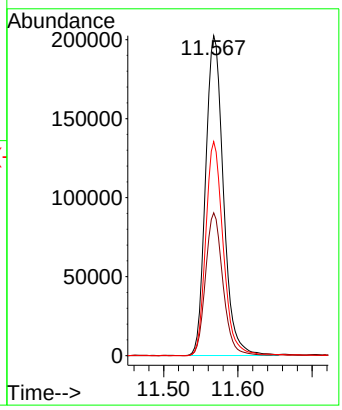


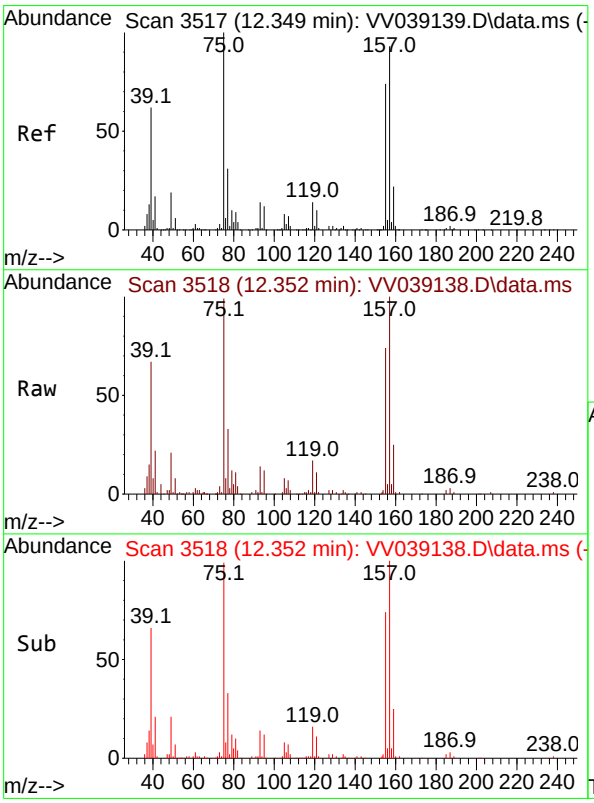
#91
1,2-Dichlorobenzene
Concen: 18.567 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 336566

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.5	64.5
148	65.5	31.9	95.7

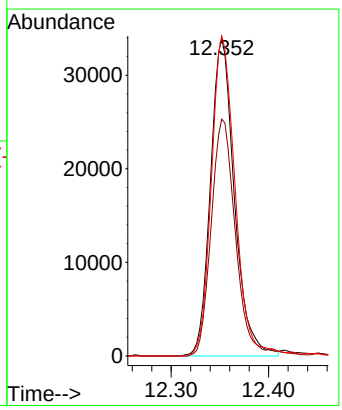


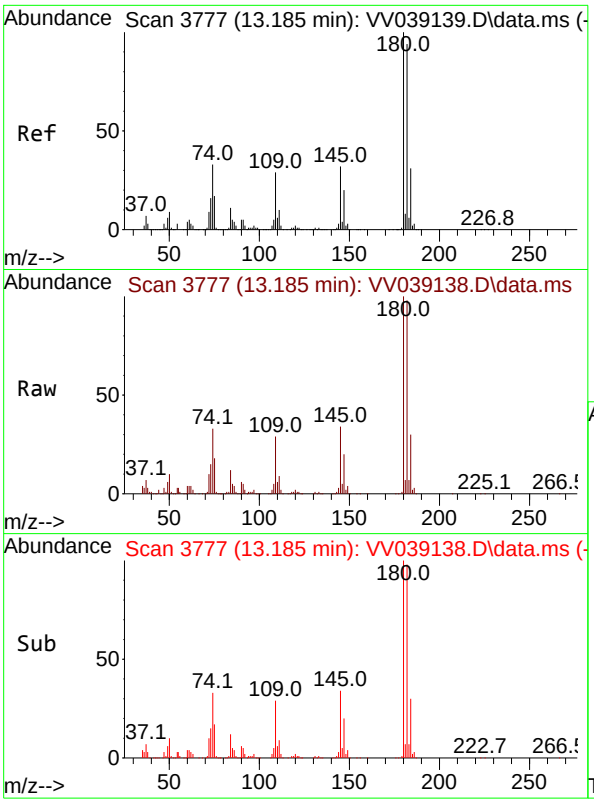


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.989 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 57671

Ion	Ratio	Lower	Upper
75	100		
155	74.8	38.6	115.8
157	100.1	49.5	148.3



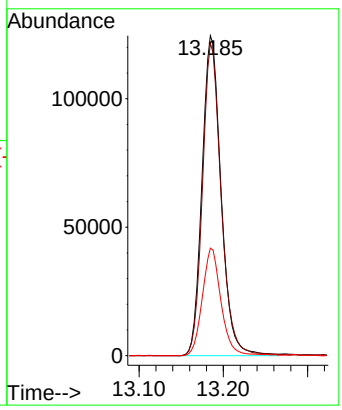


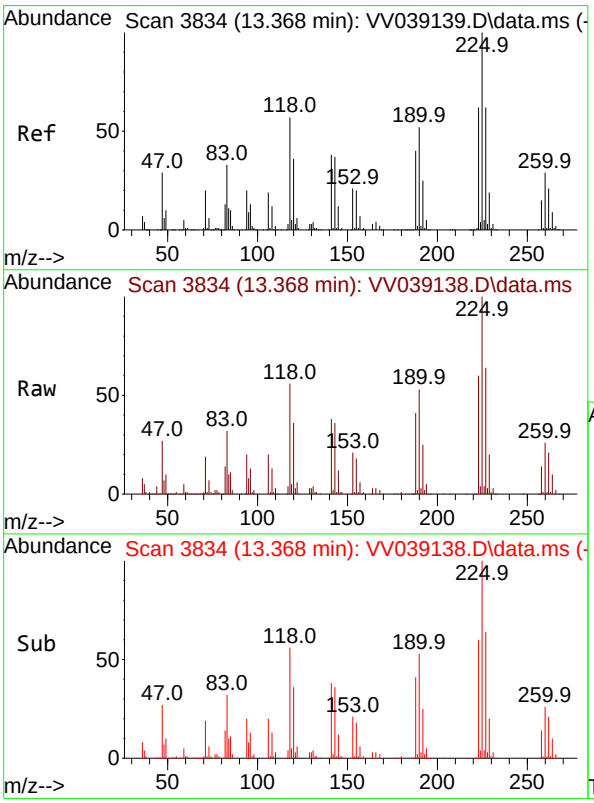
#93
1,2,4-Trichlorobenzene
Concen: 18.894 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 196334

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.1	141.4
145	33.1	16.3	48.8

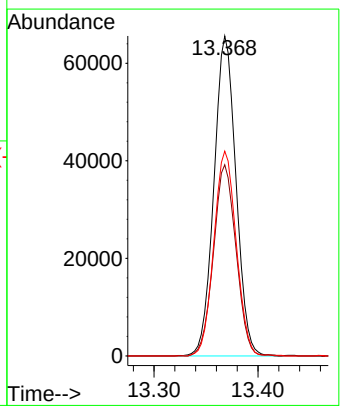


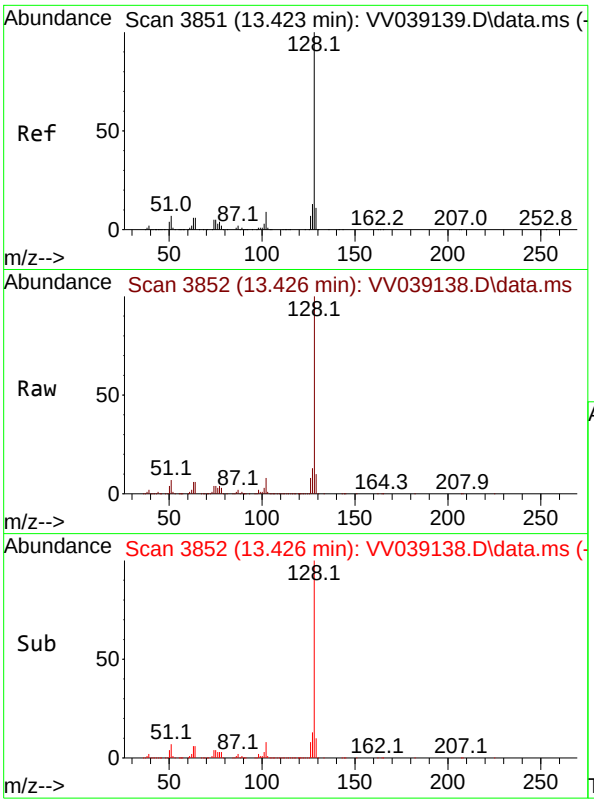


#94
Hexachlorobutadiene
Concen: 17.893 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:225 Resp: 96610

Ion	Ratio	Lower	Upper
225	100		
223	61.1	31.6	94.7
227	65.1	31.8	95.4



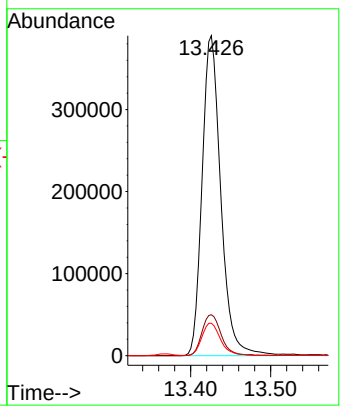


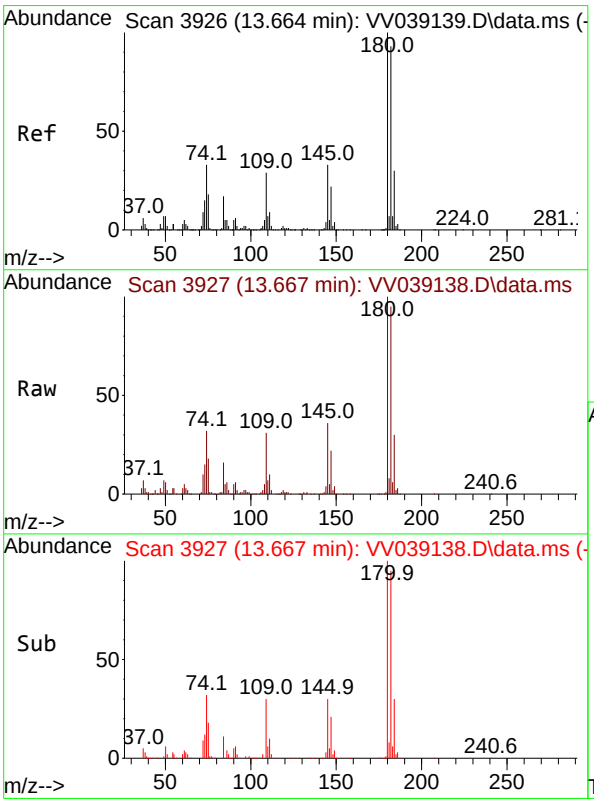
#95
Naphthalene
Concen: 18.986 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 634557

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	10.1	8.6	13.0

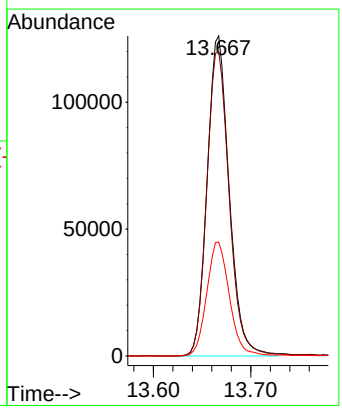




#96
1,2,3-Trichlorobenzene
Concen: 18.659 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:180 Resp: 198308

Ion	Ratio	Lower	Upper
180	100		
182	96.9	46.9	140.8
145	36.6	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.597	168	563410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	894173	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	863906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	516167	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	363821	44.618	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 89.240%			
35) Dibromofluoromethane	4.497	113	337386	46.935	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 93.860%			
50) Toluene-d8	7.233	98	1016135	48.130	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 96.260%			
62) 4-Bromofluorobenzene	9.998	95	453081	52.130	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 104.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	416798	46.733	ug/l	100
3) Chloromethane	1.230	50	433999	45.329	ug/l	100
4) Vinyl Chloride	1.298	62	470936	45.944	ug/l	100
5) Bromomethane	1.494	94	286332	44.312	ug/l	100
6) Chloroethane	1.558	64	300232	49.734	ug/l	100
7) Trichlorofluoromethane	1.725	101	672325	45.304	ug/l	100
8) Diethyl Ether	1.918	74	251813	45.707	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.082	101	395615	44.803	ug/l	100
10) Methyl Iodide	2.195	142	442822	52.662	ug/l	100
11) Tert butyl alcohol	2.564	59	385746	223.826	ug/l	100
12) 1,1-Dichloroethene	2.082	96	379710	44.700	ug/l	100
13) Acrolein	2.008	56	74486	249.076	ug/l	100
14) Allyl chloride	2.355	41	700342	46.154	ug/l	100
15) Acrylonitrile	2.671	53	1228907	222.439	ug/l	100
16) Acetone	2.118	43	1265424	251.263	ug/l	100
17) Carbon Disulfide	2.253	76	1172348	45.126	ug/l	100
18) Methyl Acetate	2.378	43	553676	45.827	ug/l	100
19) Methyl tert-butyl Ether	2.709	73	1258060	46.476	ug/l	100
20) Methylene Chloride	2.455	84	439142	49.828	ug/l	100
21) trans-1,2-Dichloroethene	2.699	96	407938	45.109	ug/l	100
22) Diisopropyl ether	3.214	45	1419527	48.895	ug/l	100
23) Vinyl Acetate	3.185	43	6209687	244.506	ug/l	100
24) 1,1-Dichloroethane	3.114	63	781832	44.037	ug/l	100
25) 2-Butanone	3.860	43	1650213	257.105	ug/l	100
26) 2,2-Dichloropropane	3.806	77	698283	44.534	ug/l	100
27) cis-1,2-Dichloroethene	3.818	96	488972	49.026	ug/l	100
28) Bromochloromethane	4.143	49	382640	48.820	ug/l	100
29) Tetrahydrofuran	4.230	42	1039169	254.258	ug/l	100
30) Chloroform	4.275	83	839217	45.268	ug/l	100
31) Cyclohexane	4.580	56	701482	48.232	ug/l	100
32) 1,1,1-Trichloroethane	4.510	97	731030	45.547	ug/l	100
36) 1,1-Dichloropropene	4.741	75	554798	50.680	ug/l	100
37) Ethyl Acetate	3.970	43	638131	47.519	ug/l	100
38) Carbon Tetrachloride	4.732	117	628516	47.666	ug/l	100
39) Methylcyclohexane	6.043	83	736231	56.095	ug/l	100
40) Benzene	5.005	78	1779301	50.276	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.153	41	295316	49.541	ug/l	100
42) 1,2-Dichloroethane	5.037	62	595216	48.000	ug/l	100
43) Isopropyl Acetate	5.188	43	956288	51.691	ug/l	100
44) Trichloroethene	5.828	130	414171	50.715	ug/l	100
45) 1,2-Dichloropropane	6.085	63	448750	51.014	ug/l	100
46) Dibromomethane	6.220	93	329073	48.876	ug/l	100
47) Bromodichloromethane	6.423	83	673646	48.398	ug/l	100
48) Methyl methacrylate	6.291	41	450230	53.193	ug/l	100
49) 1,4-Dioxane	6.288	88	133834	1006.069	ug/l	100
51) 4-Methyl-2-Pentanone	7.146	43	3273840	276.753	ug/l	100
52) Toluene	7.304	92	1099325	53.574	ug/l	100
53) t-1,3-Dichloropropene	7.571	75	650976	53.666	ug/l	100
54) cis-1,3-Dichloropropene	6.944	75	725015	54.142	ug/l	100
55) 1,1,2-Trichloroethane	7.757	97	441822	48.020	ug/l	100
56) Ethyl methacrylate	7.712	69	640636	58.632	ug/l	100
57) 1,3-Dichloropropane	7.931	76	733341	50.505	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.809	63	1579407	255.700	ug/l	100
59) 2-Hexanone	8.059	43	2441880	255.630	ug/l	100
60) Dibromochloromethane	8.165	129	507043	48.365	ug/l	100
61) 1,2-Dibromoethane	8.272	107	473037	50.273	ug/l	100
64) Tetrachloroethene	7.895	164	356209	49.227	ug/l	100
65) Chlorobenzene	8.802	112	1194769	49.651	ug/l	100
66) 1,1,1,2-Tetrachloroethane	8.895	131	421762	48.507	ug/l	100
67) Ethyl Benzene	8.934	91	2057558	56.487	ug/l	100
68) m/p-Xylenes	9.059	106	1639130	116.591	ug/l	100
69) o-Xylene	9.468	106	730558	58.688	ug/l	100
70) Styrene	9.484	104	1341298	50.845	ug/l	100
71) Bromoform	9.651	173	341871	50.337	ug/l	100
73) Isopropylbenzene	9.854	105	2033373	54.313	ug/l	100
74) N-amyl acetate	9.722	43	863632	57.833	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.165	83	735590	44.844	ug/l	100
76) 1,2,3-Trichloropropane	10.194	75	541552	46.080	ug/l	100
77) Bromobenzene	10.140	156	477608	49.171	ug/l	100
78) n-propylbenzene	10.275	91	2528458	55.461	ug/l	100
79) 2-Chlorotoluene	10.345	91	1462530	53.612	ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	1748435	56.188	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.928	75	255259	52.143	ug/l	100
82) 4-Chlorotoluene	10.461	91	1722899	54.466	ug/l	100
83) tert-Butylbenzene	10.789	119	1663245	53.602	ug/l	100
84) 1,2,4-Trimethylbenzene	10.837	105	1743425	57.709	ug/l	100
85) sec-Butylbenzene	11.011	105	2252781	54.737	ug/l	100
86) p-Isopropyltoluene	11.165	119	1900412	55.479	ug/l	100
87) 1,3-Dichlorobenzene	11.104	146	958701	48.769	ug/l	100
88) 1,4-Dichlorobenzene	11.194	146	998426	45.957	ug/l	100
89) n-Butylbenzene	11.577	91	1864844	57.003	ug/l	100
90) Hexachloroethane	11.818	117	375818	44.553	ug/l	100
91) 1,2-Dichlorobenzene	11.567	146	897135	48.848	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.349	75	147329	49.928	ug/l	100
93) 1,2,4-Trichlorobenzene	13.185	180	555323	52.747	ug/l	100
94) Hexachlorobutadiene	13.368	225	247695	45.279	ug/l	100
95) Naphthalene	13.423	128	1968567	58.135	ug/l	100
96) 1,2,3-Trichlorobenzene	13.664	180	571563	53.081	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

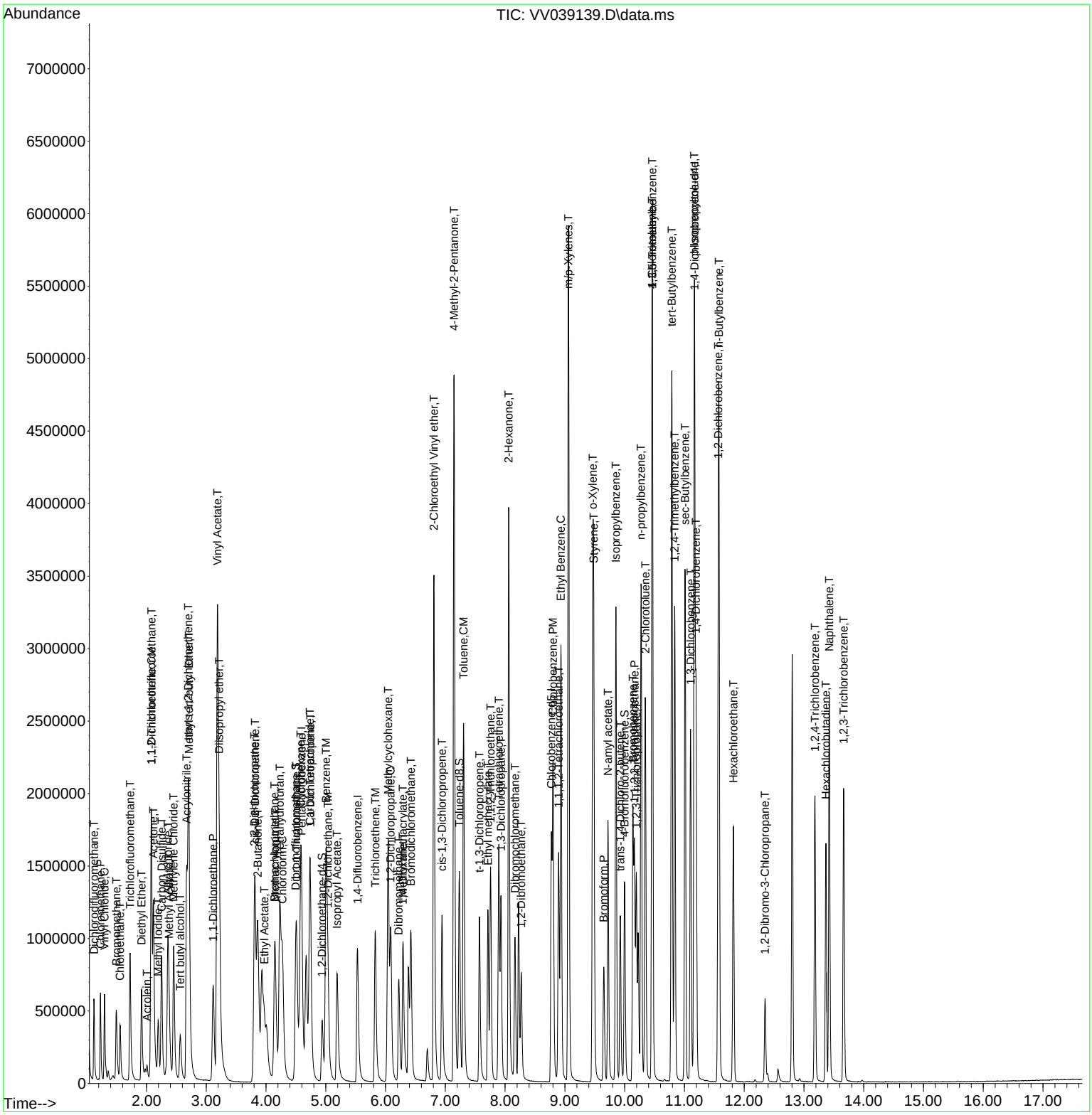
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

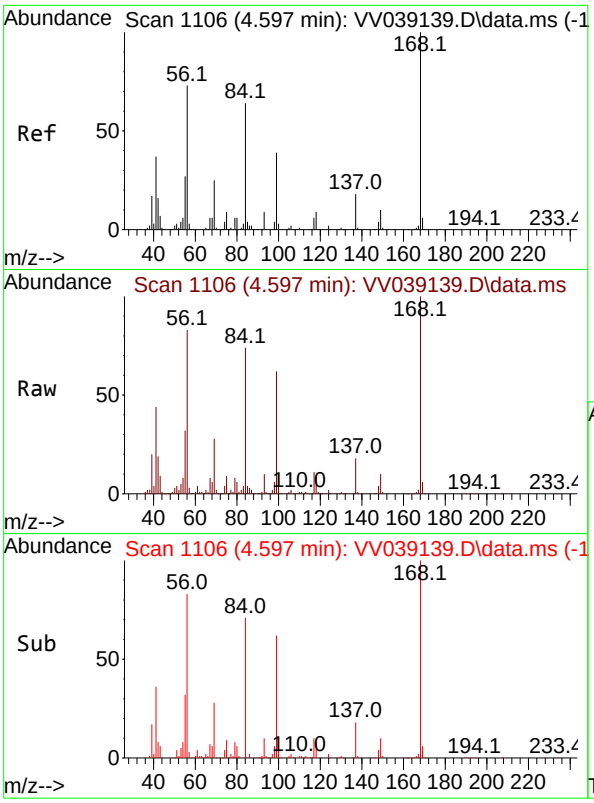
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



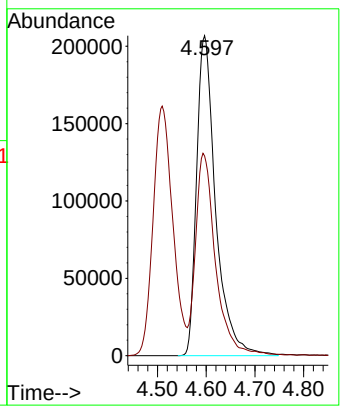


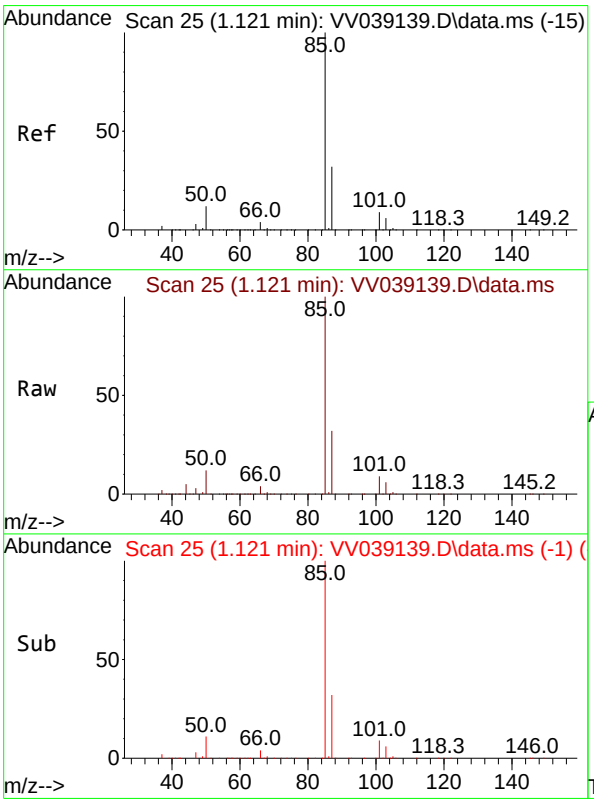
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 563410

Ion	Ratio	Lower	Upper
168	100		
99	62.0	49.6	74.4

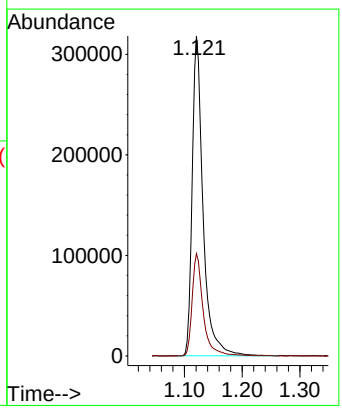


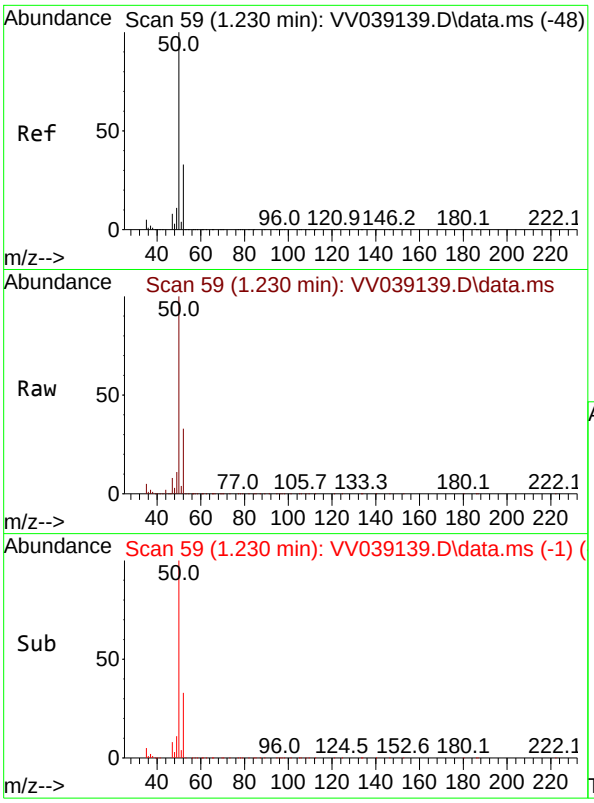


#2
Dichlorodifluoromethane
Concen: 46.733 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 85 Resp: 416798

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.0	47.9



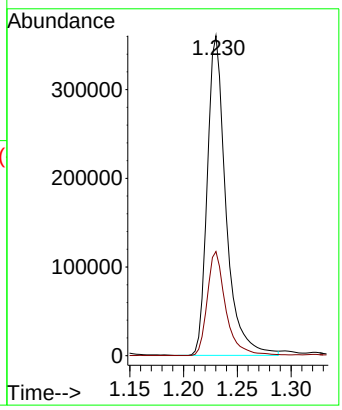


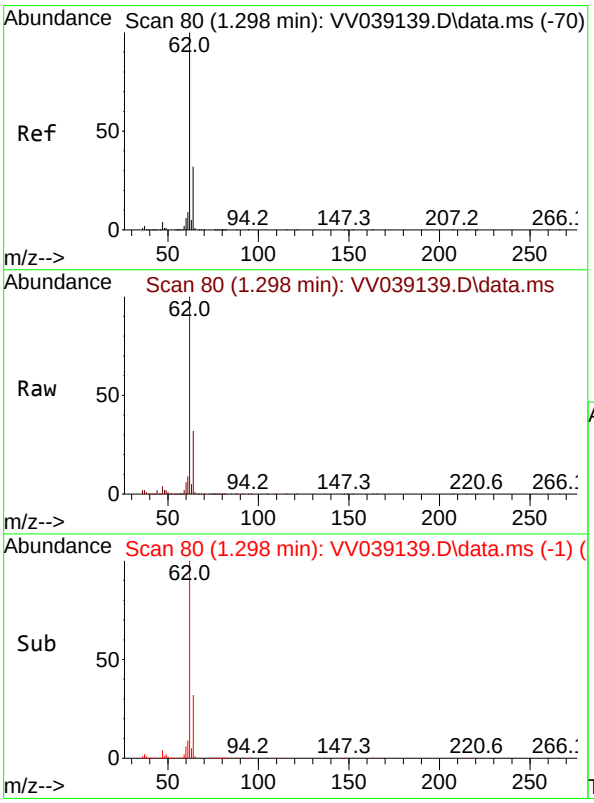
#3
Chloromethane
Concen: 45.329 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 433999

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

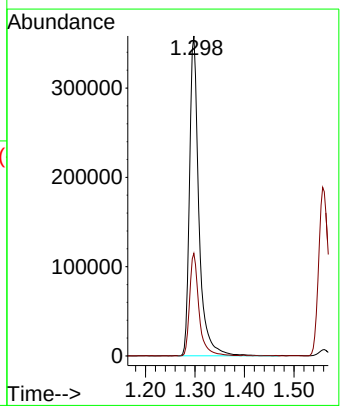


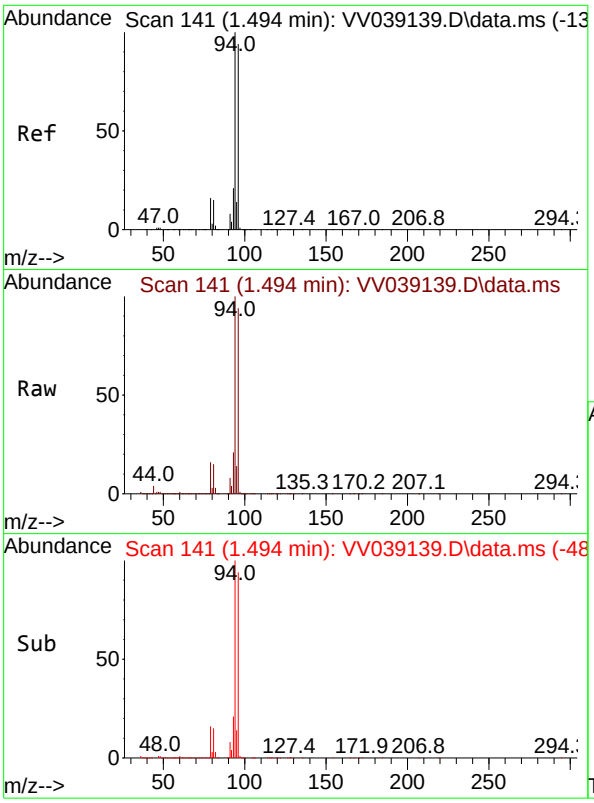


#4
Vinyl Chloride
Concen: 45.944 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 62 Resp: 470936

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.6	38.4



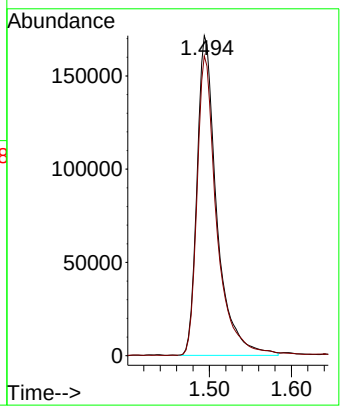


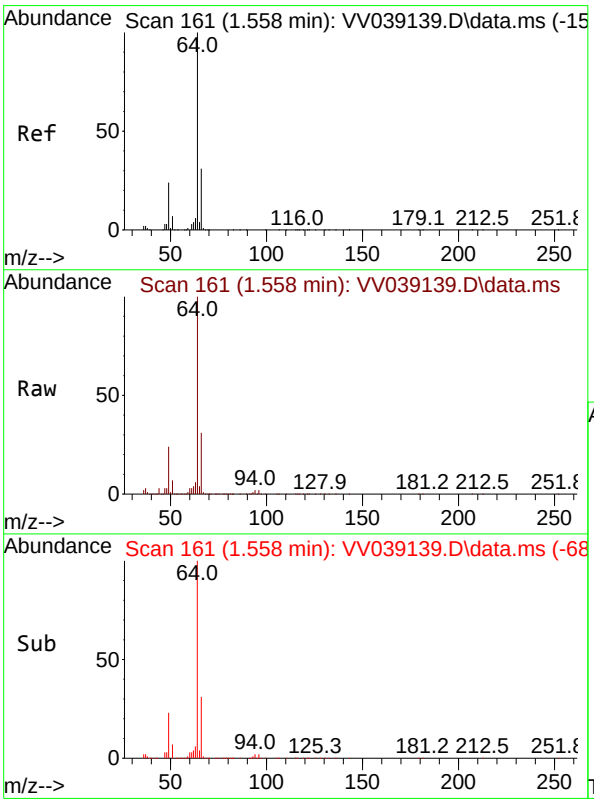
#5
Bromomethane
Concen: 44.312 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 286332

Ion	Ratio	Lower	Upper
94	100		
96	93.6	74.9	112.3

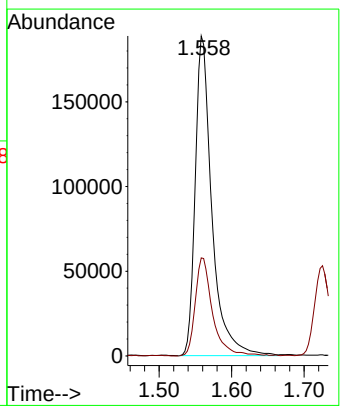


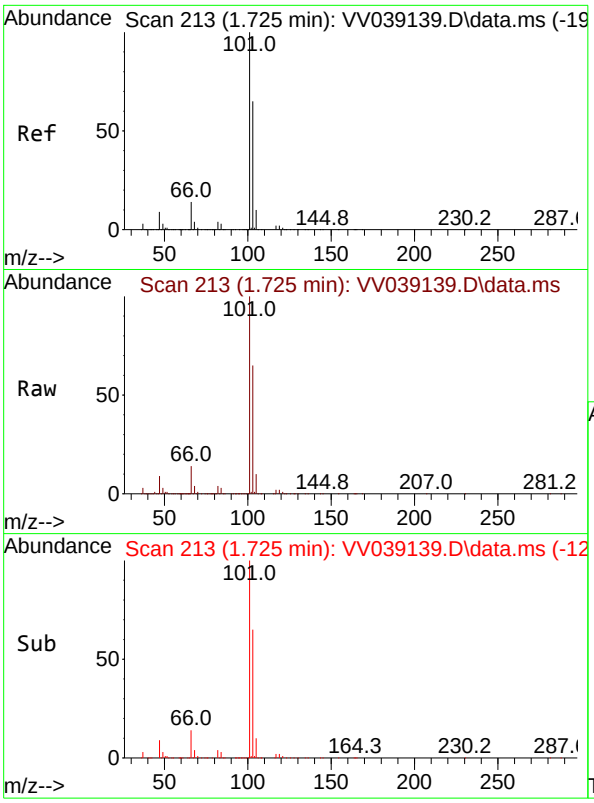


#6
Chloroethane
Concen: 49.734 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 64 Resp: 300232

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	36.8



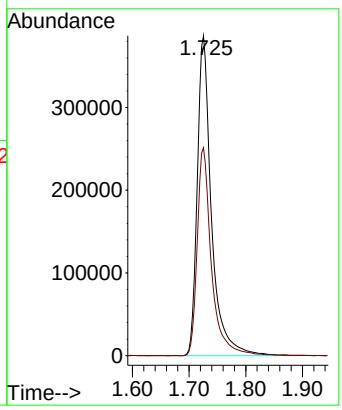


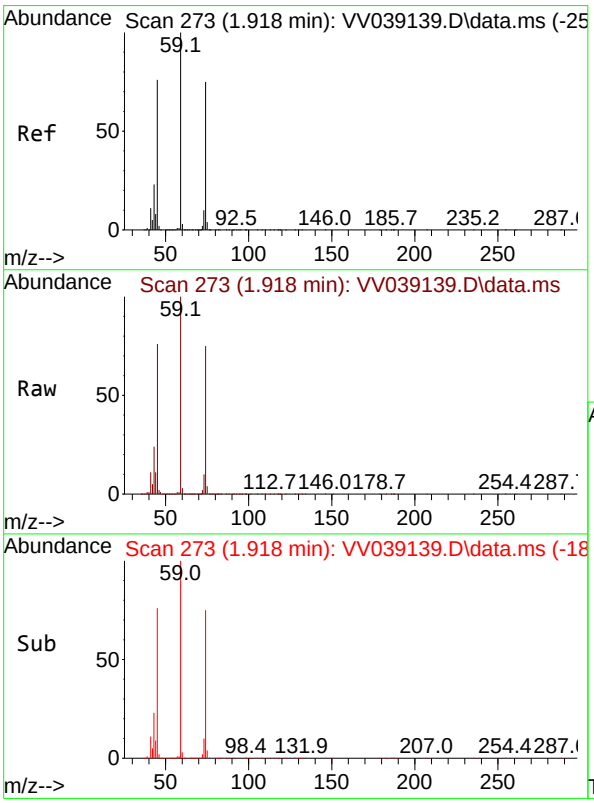
#7
Trichlorofluoromethane
Concen: 45.304 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 672325

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.0	78.0

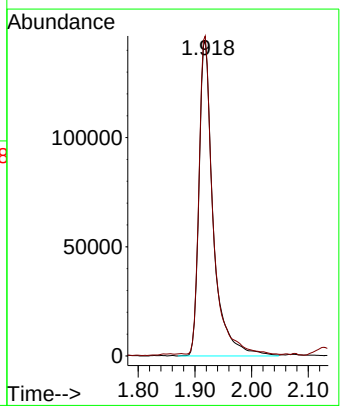


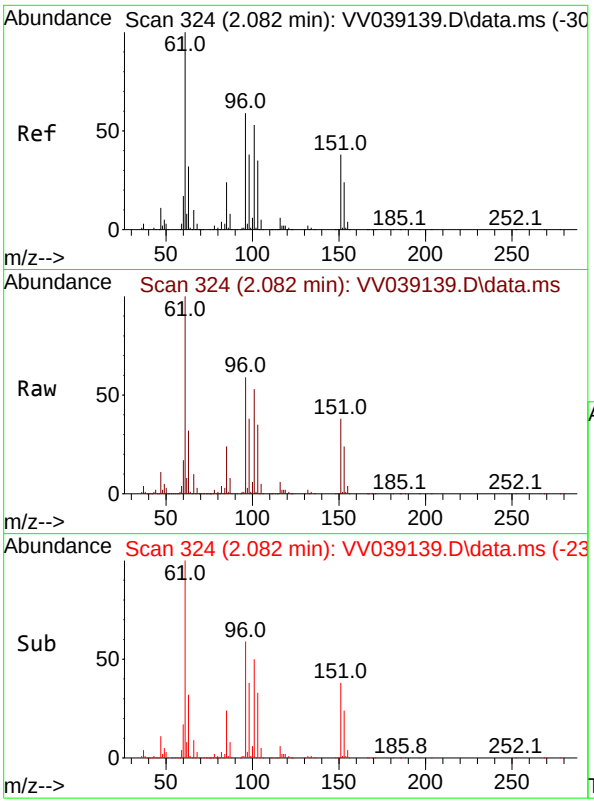


#8
Diethyl Ether
Concen: 45.707 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 74 Resp: 251813

Ion	Ratio	Lower	Upper
74	100		
45	99.2	49.6	148.8



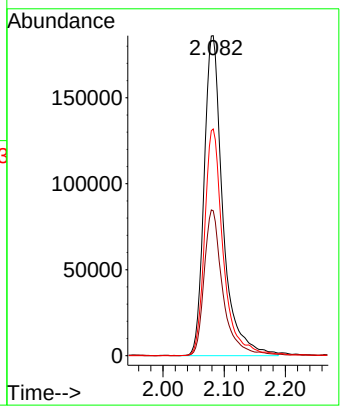


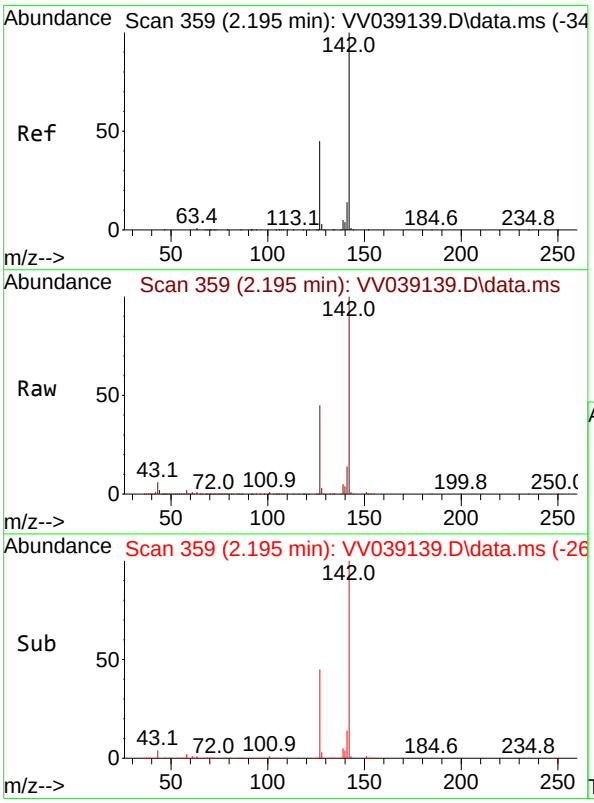
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.803 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 395615

Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.2	54.2
151	70.4	56.3	84.5

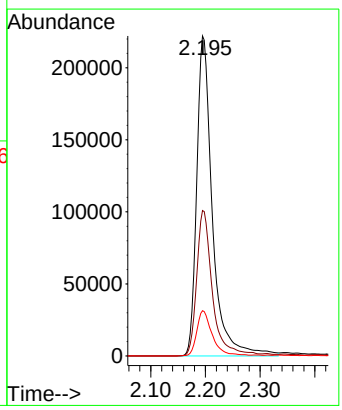


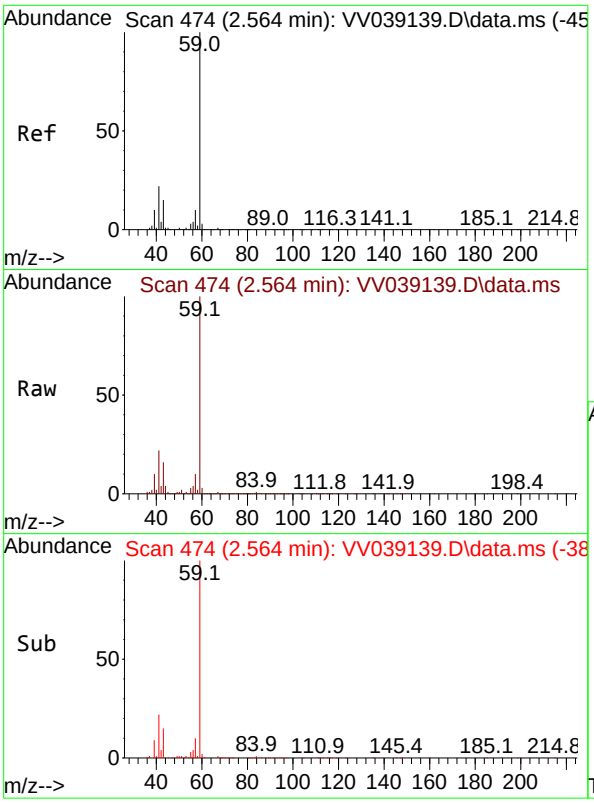


#10
Methyl Iodide
Concen: 52.662 ug/l
RT: 2.195 min Scan# 359
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:142 Resp: 442822

Ion	Ratio	Lower	Upper
142	100		
127	45.4	36.3	54.5
141	14.0	11.2	16.8



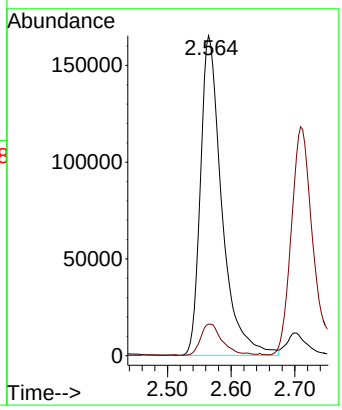


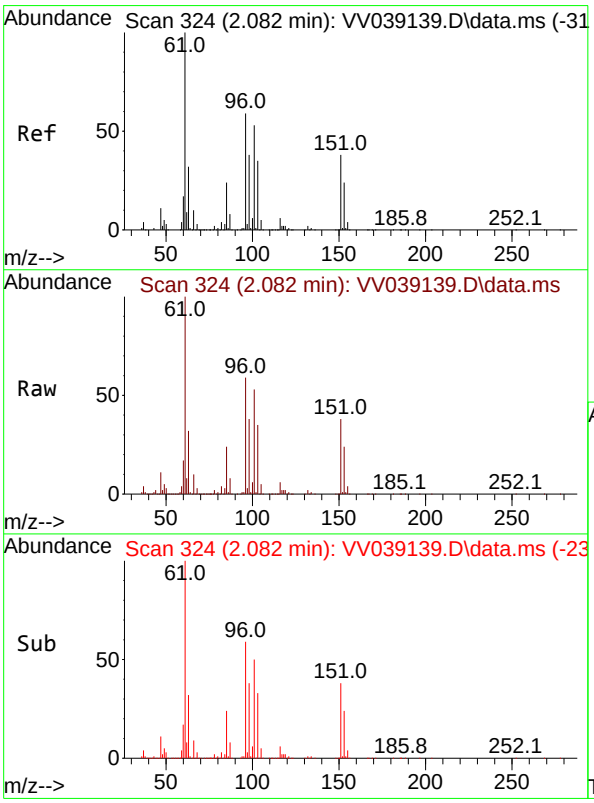
#11
Tert butyl alcohol
Concen: 223.826 ug/l
RT: 2.564 min Scan# 4
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 385746

Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.8	11.8

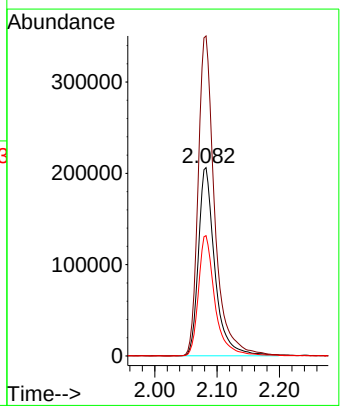


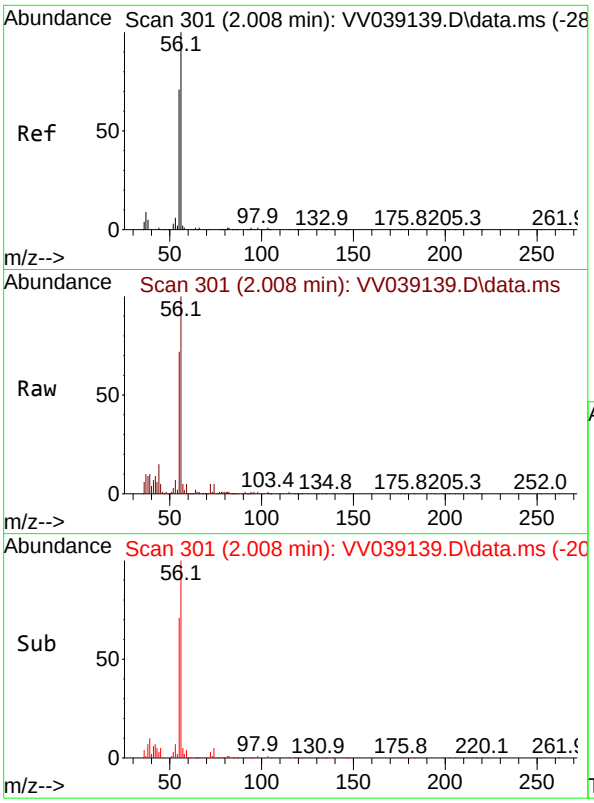


#12
1,1-Dichloroethene
Concen: 44.700 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 96 Resp: 379710

Ion	Ratio	Lower	Upper
96	100		
61	170.0	136.0	204.0
98	63.8	51.0	76.6



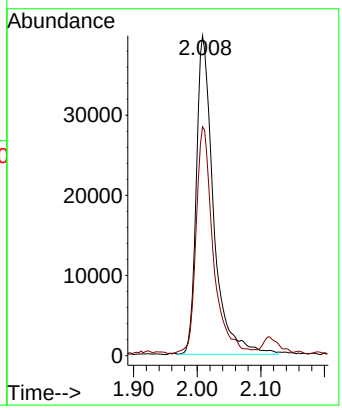


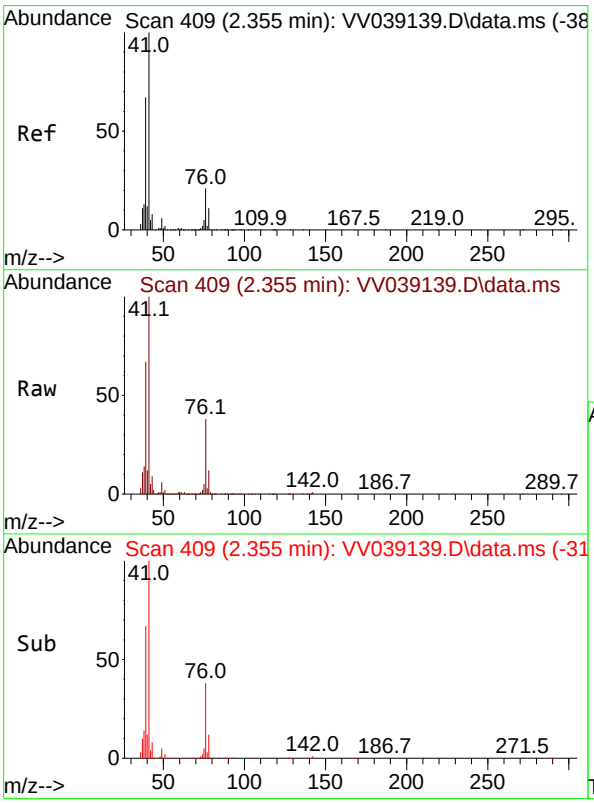
#13
Acrolein
Concen: 249.076 ug/l
RT: 2.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 74486

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4

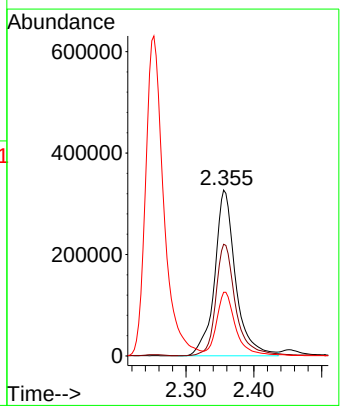


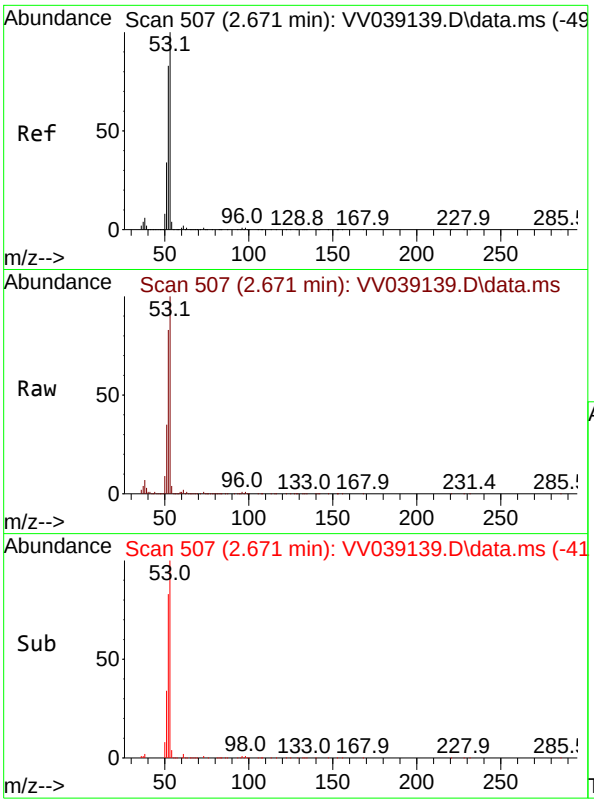


#14
Allyl chloride
Concen: 46.154 ug/l
RT: 2.355 min Scan# 409
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 41 Resp: 700342

Ion	Ratio	Lower	Upper
41	100		
39	63.8	51.0	76.6
76	35.3	28.2	42.4



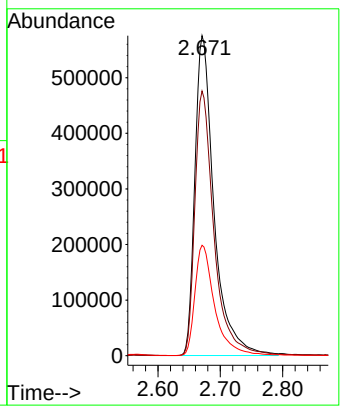


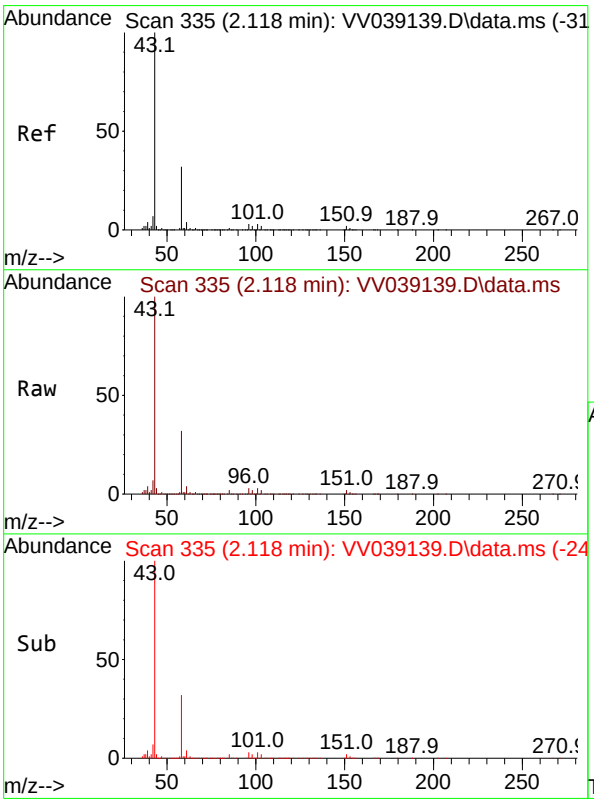
#15
Acrylonitrile
Concen: 222.439 ug/l
RT: 2.671 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 1228907

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	35.6	28.5	42.7

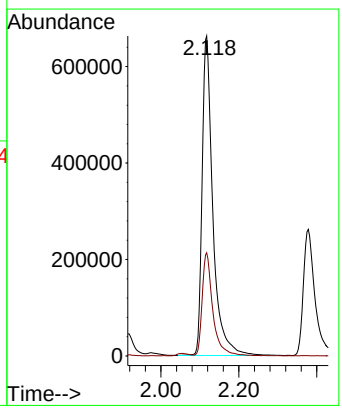


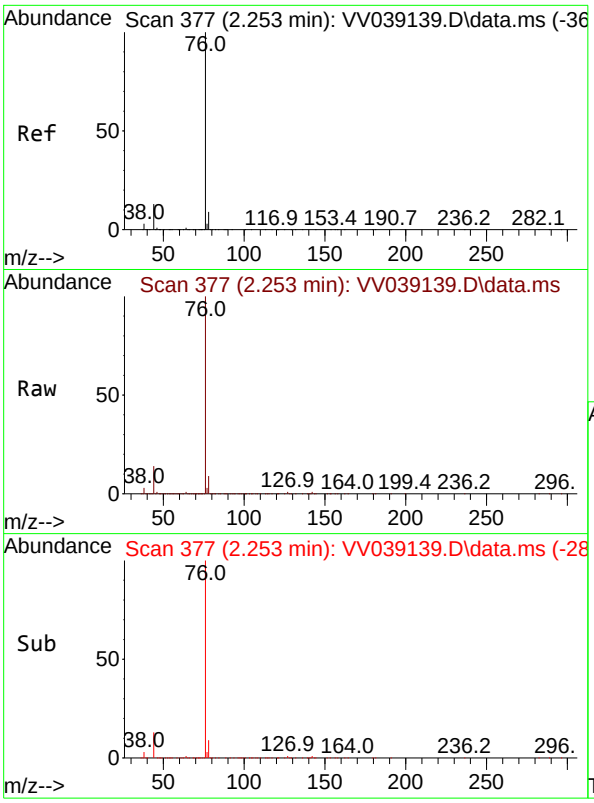


#16
Acetone
Concen: 251.263 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 1265424

Ion	Ratio	Lower	Upper
43	100		
58	32.2	25.8	38.6



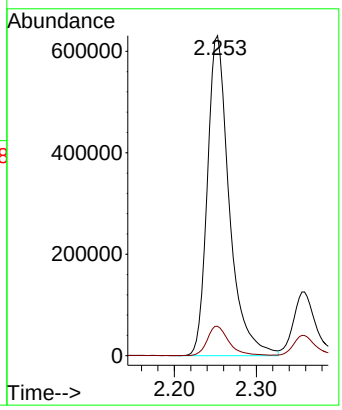


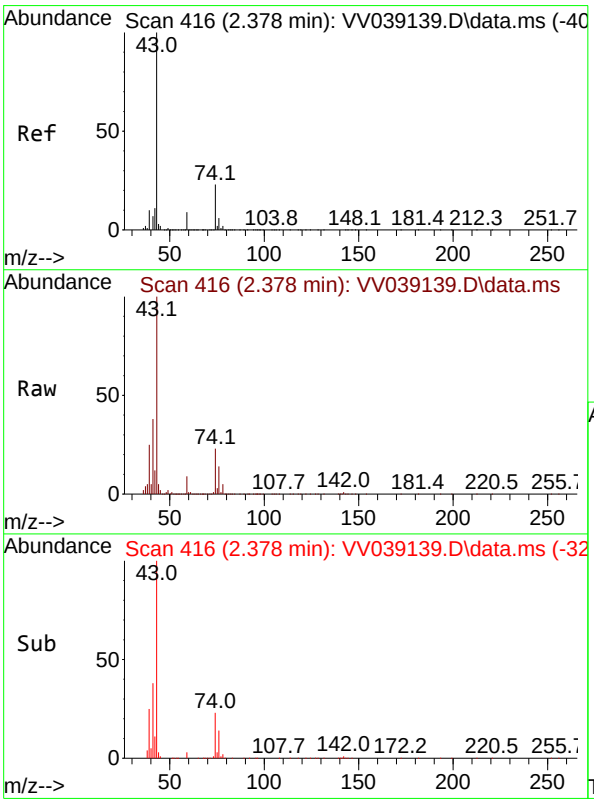
#17
Carbon Disulfide
Concen: 45.126 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 1172348

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

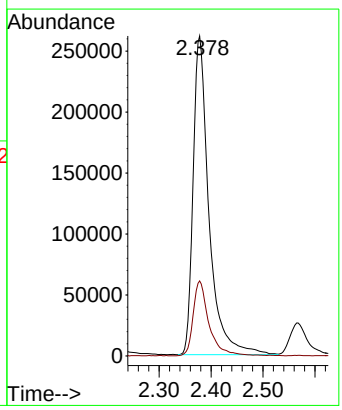


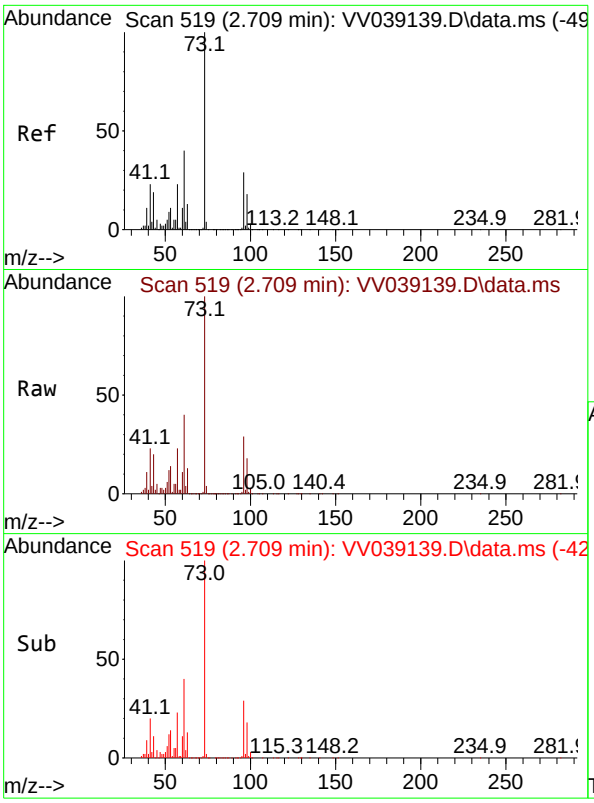


#18
Methyl Acetate
Concen: 45.827 ug/l
RT: 2.378 min Scan# 416
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 553676

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	27.8



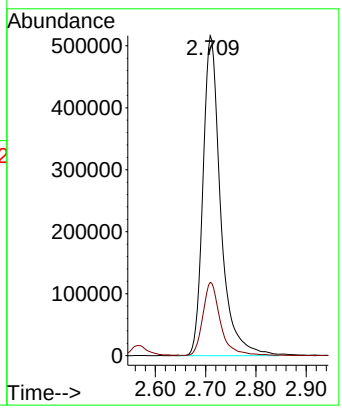


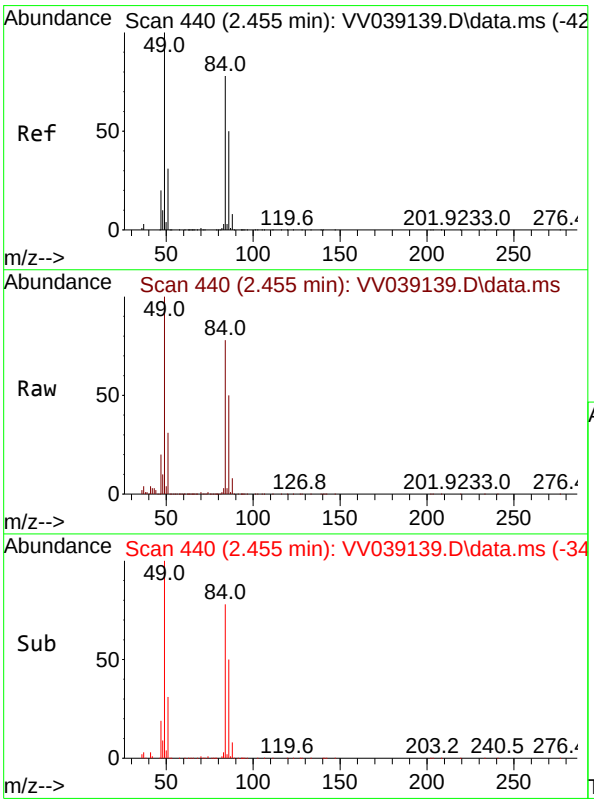
#19
Methyl tert-butyl Ether
Concen: 46.476 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 1258060

Ion	Ratio	Lower	Upper
73	100		
57	22.8	18.2	27.4

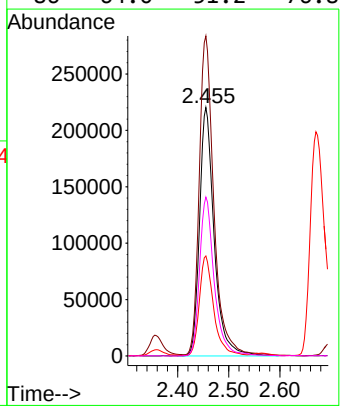


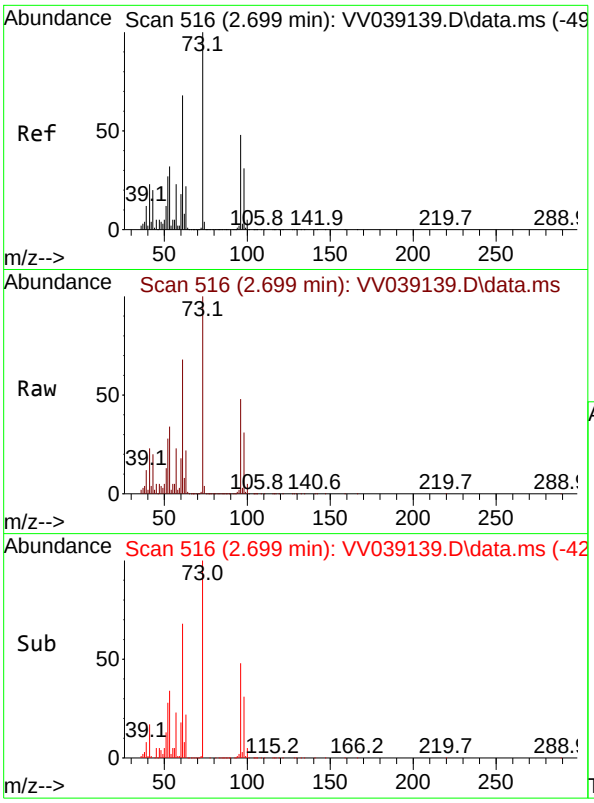


#20
Methylene Chloride
Concen: 49.828 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 84 Resp: 439142

Ion	Ratio	Lower	Upper
84	100		
49	128.5	102.8	154.2
51	39.9	31.9	47.9
86	64.0	51.2	76.8



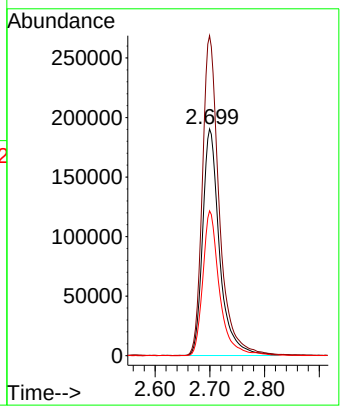


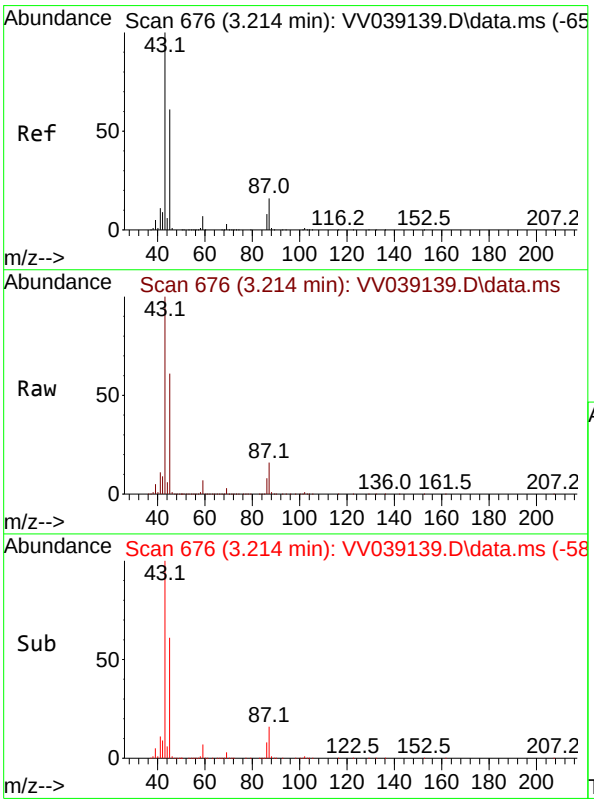
#21
trans-1,2-Dichloroethene
Concen: 45.109 ug/l
RT: 2.699 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 407938

Ion	Ratio	Lower	Upper
96	100		
61	141.0	112.8	169.2
98	63.9	51.1	76.7

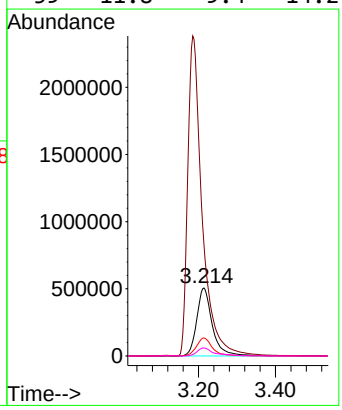


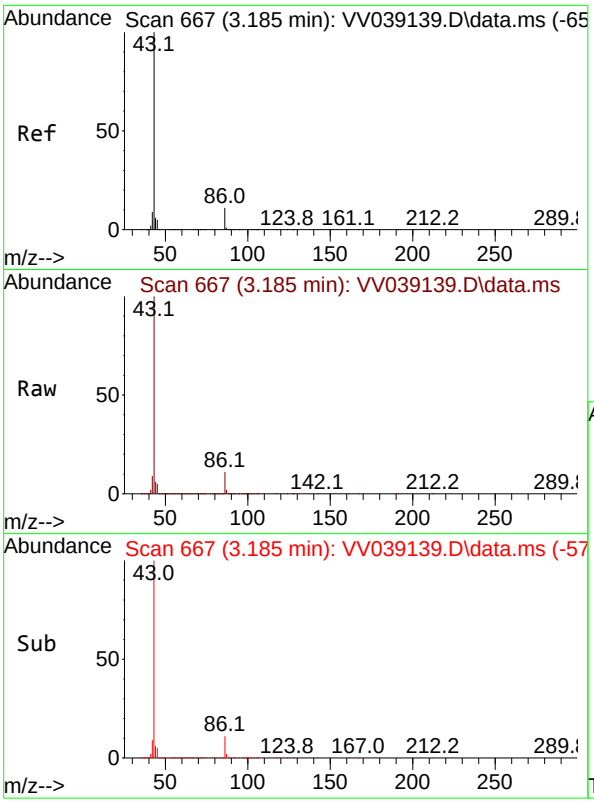


#22
Diisopropyl ether
Concen: 48.895 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 45 Resp: 1419527

Ion	Ratio	Lower	Upper
45	100		
43	163.6	130.9	196.3
87	26.4	21.1	31.7
59	11.8	9.4	14.2



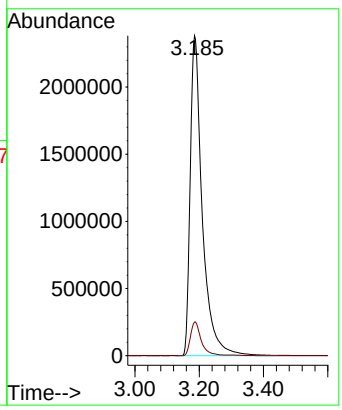


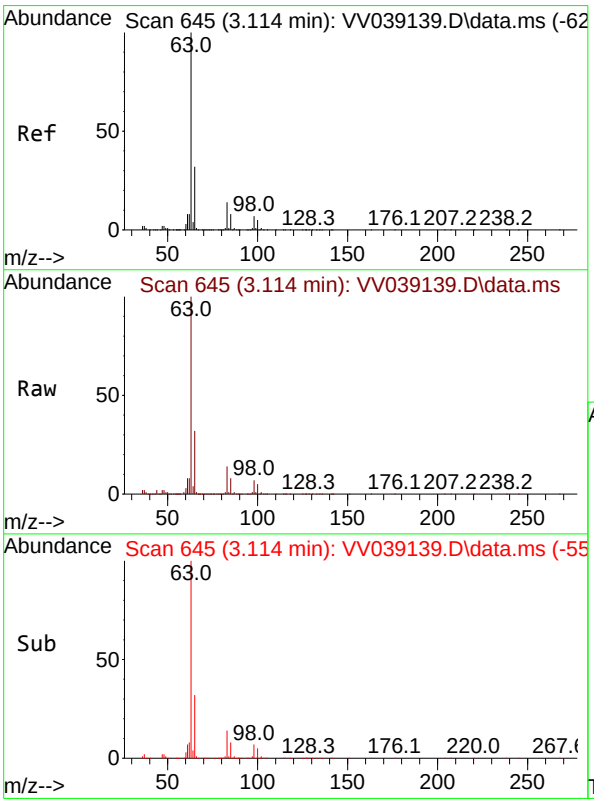
#23
Vinyl Acetate
Concen: 244.506 ug/l
RT: 3.185 min Scan# 6
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 6209687

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.4	12.6

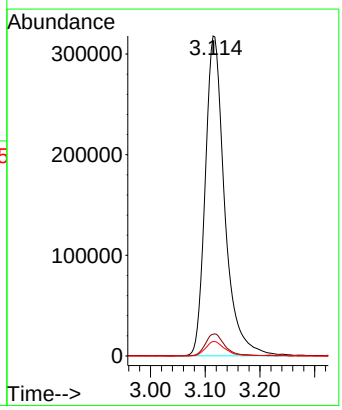


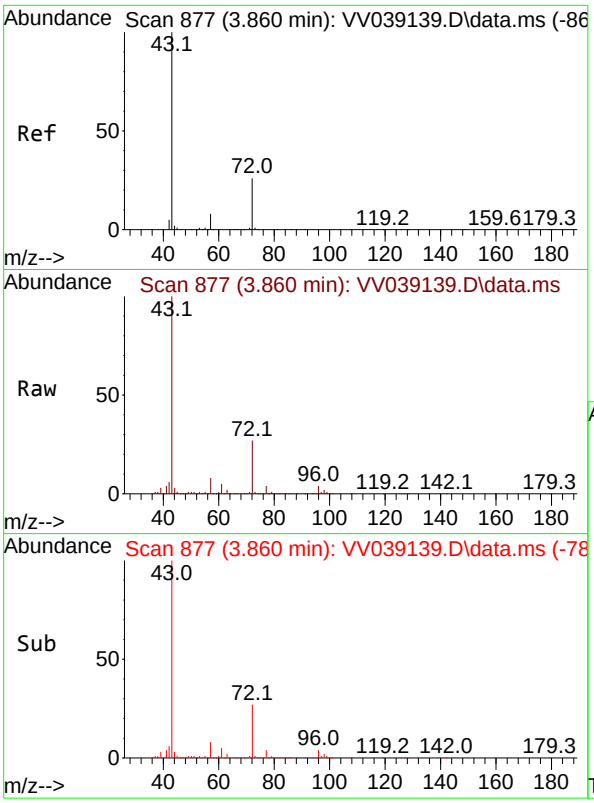


#24
1,1-Dichloroethane
Concen: 44.037 ug/l
RT: 3.114 min Scan# 645
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 63 Resp: 781832

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.4	2.2	6.6



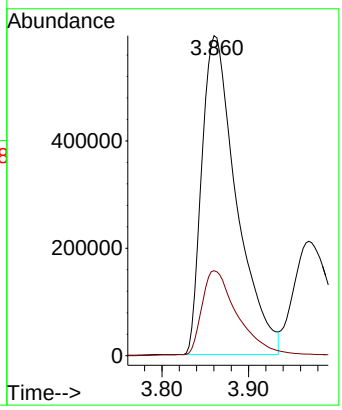


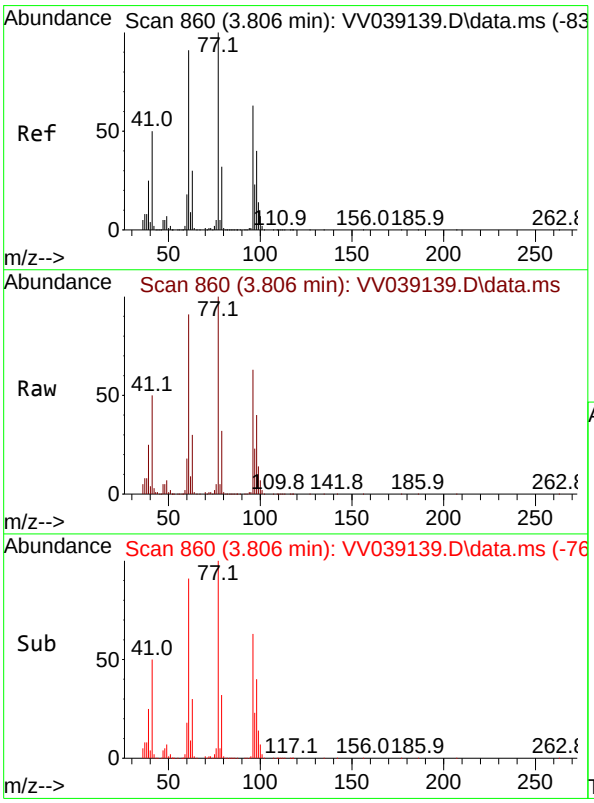
#25
2-Butanone
Concen: 257.105 ug/l
RT: 3.860 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1650213

Ion	Ratio	Lower	Upper
43	100		
72	26.3	21.0	31.6

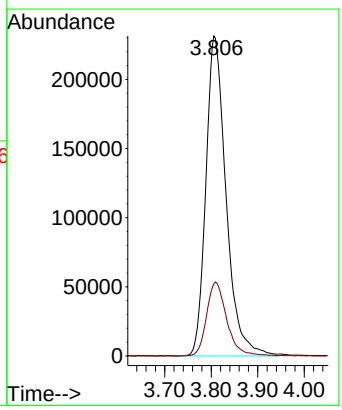


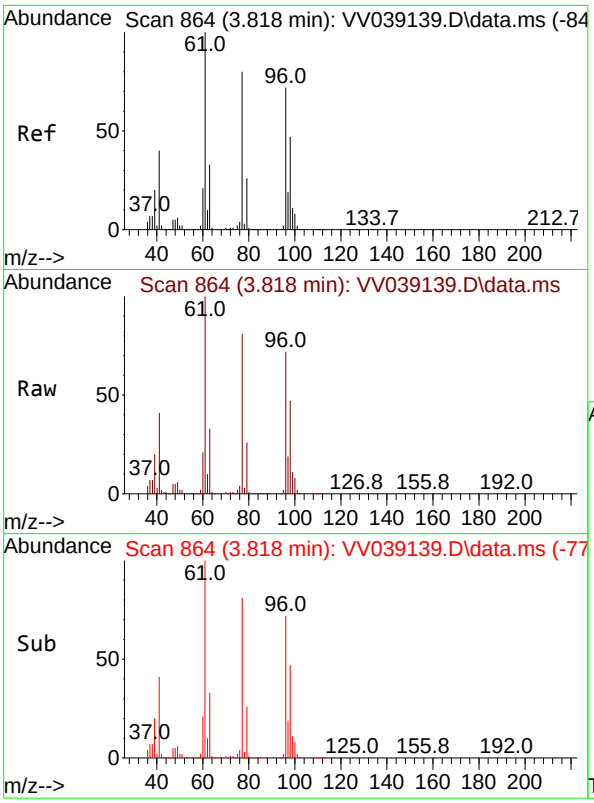


#26
2,2-Dichloropropane
Concen: 44.534 ug/l
RT: 3.806 min Scan# 860
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 77 Resp: 698283

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



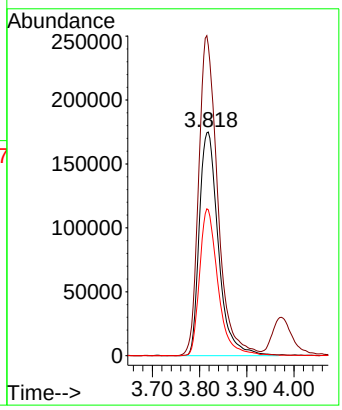


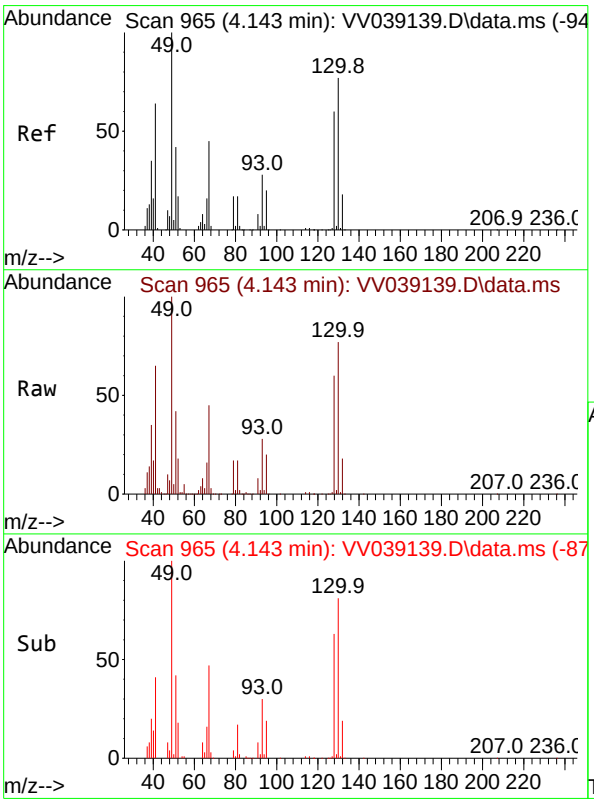
#27
cis-1,2-Dichloroethene
Concen: 49.026 ug/l
RT: 3.818 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 488972

Ion	Ratio	Lower	Upper
96	100		
61	143.2	0.0	286.4
98	63.3	0.0	126.6

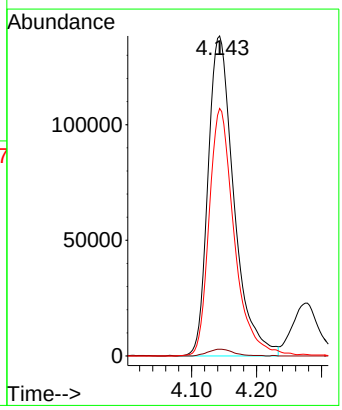


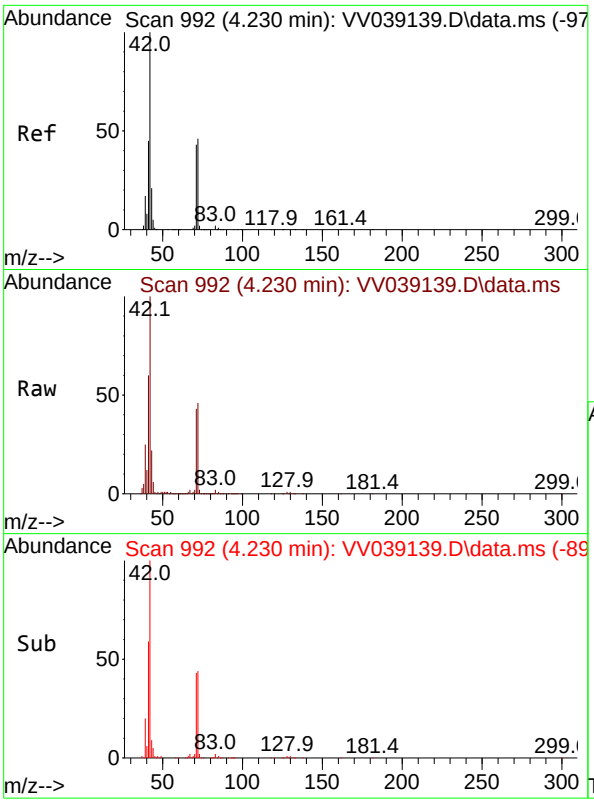


#28
Bromochloromethane
Concen: 48.820 ug/l
RT: 4.143 min Scan# 965
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 49 Resp: 382640

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	75.2	60.2	90.2



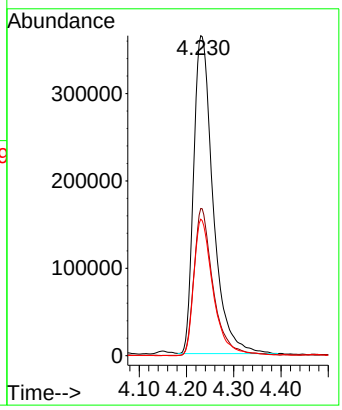


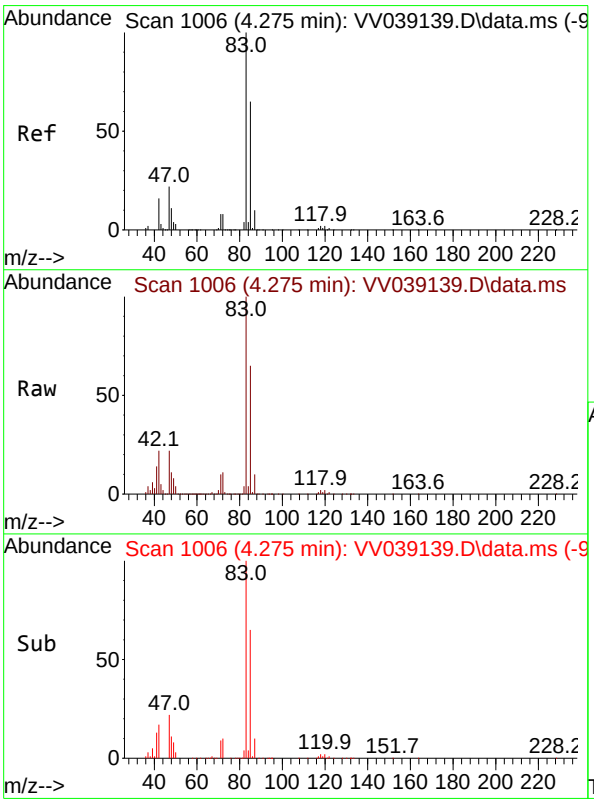
#29
Tetrahydrofuran
Concen: 254.258 ug/l
RT: 4.230 min Scan# 9
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 1039169

Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.3	54.5
71	42.9	34.3	51.5

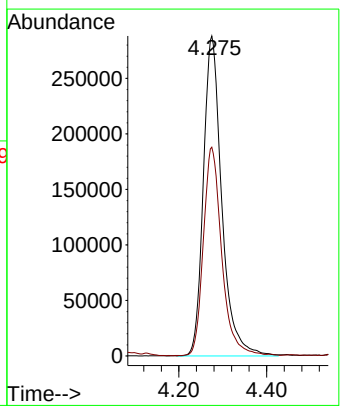


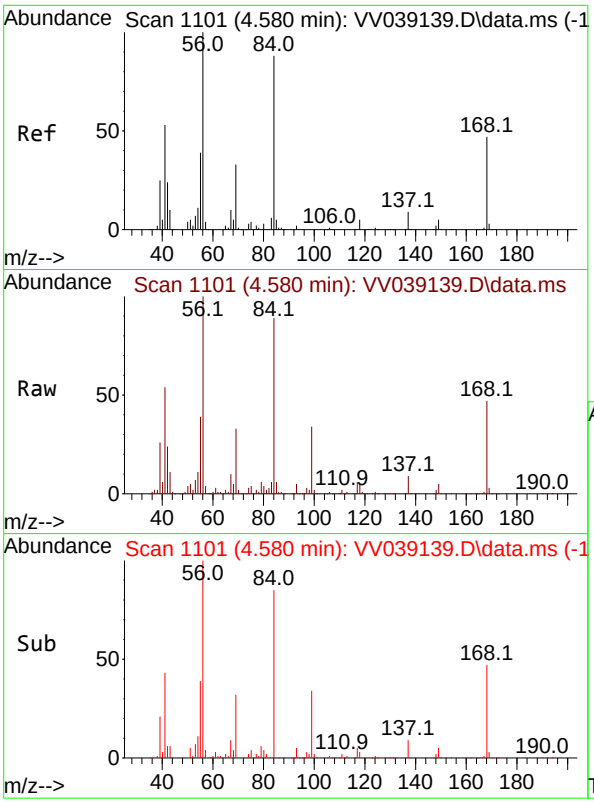


#30
Chloroform
Concen: 45.268 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 83 Resp: 839217

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1



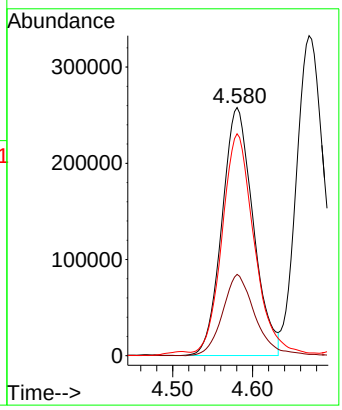


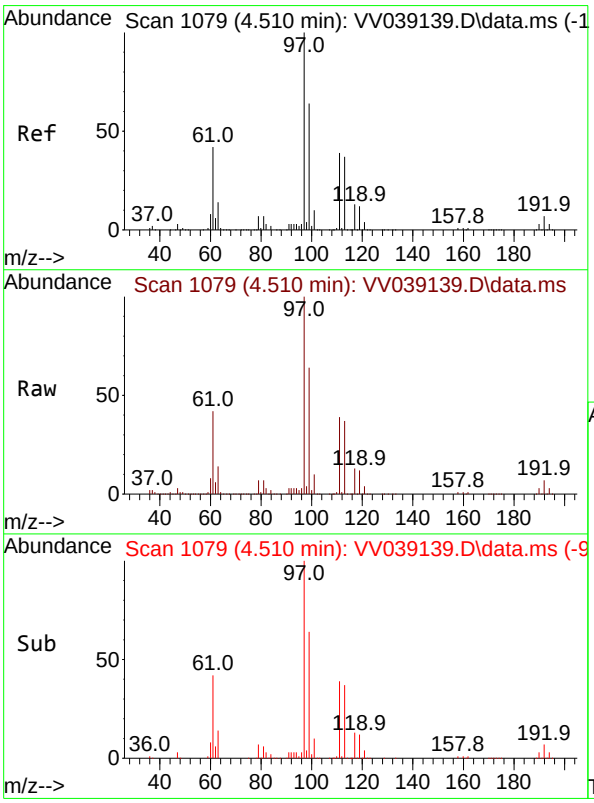
#31
Cyclohexane
Concen: 48.232 ug/l
RT: 4.580 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 701482

Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.2	39.2
84	87.9	70.3	105.5

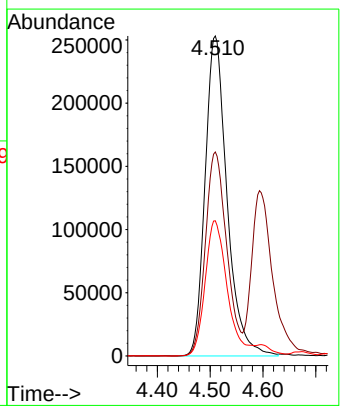


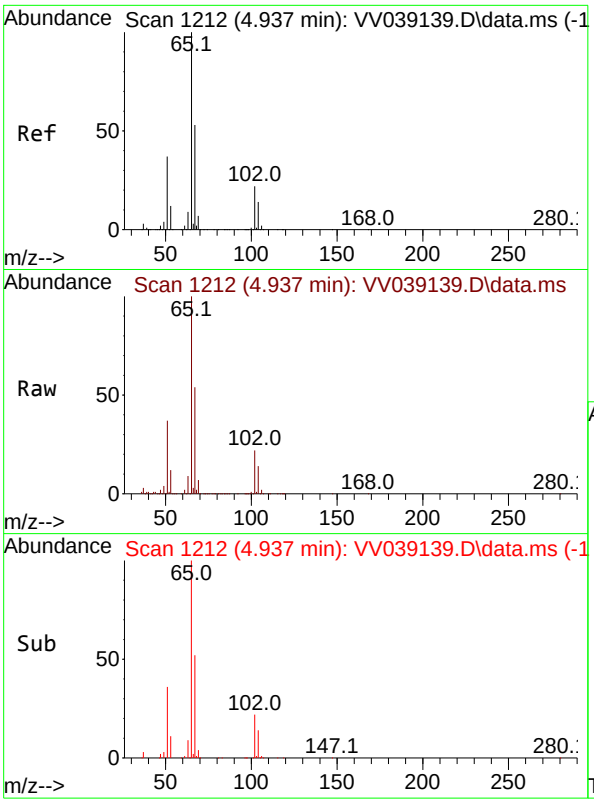


#32
1,1,1-Trichloroethane
Concen: 45.547 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 97 Resp: 731030

Ion	Ratio	Lower	Upper
97	100		
99	62.0	49.6	74.4
61	43.1	34.5	51.7



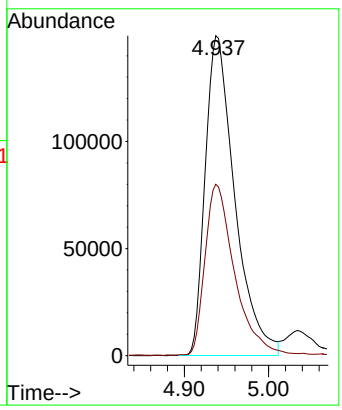


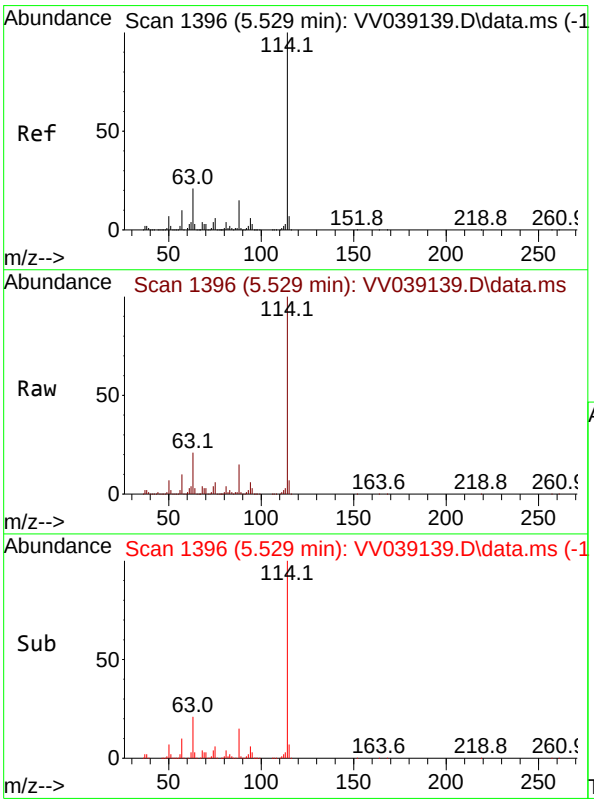
#33
1,2-Dichloroethane-d4
Concen: 44.618 ug/l
RT: 4.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 363821

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	107.0

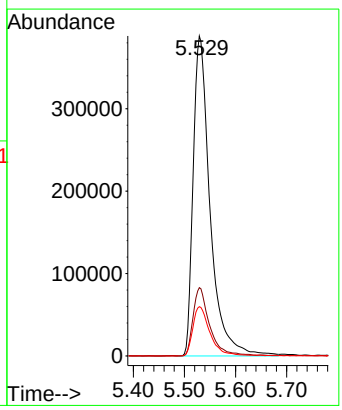


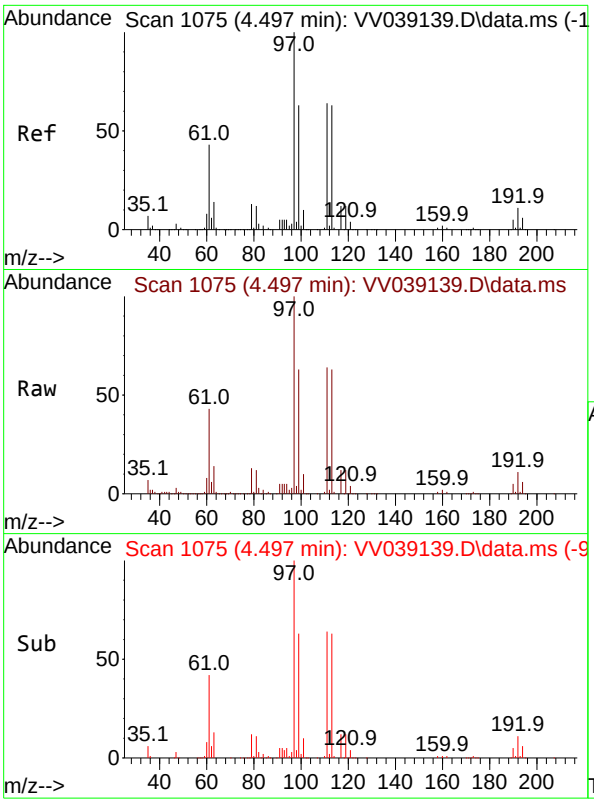


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:114 Resp: 894173

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	15.4	0.0	30.8



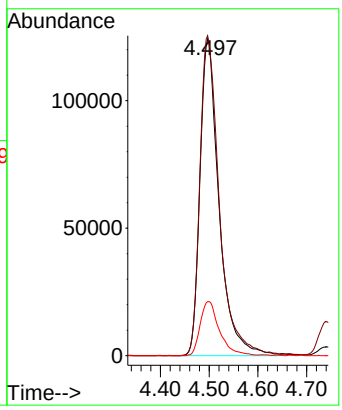


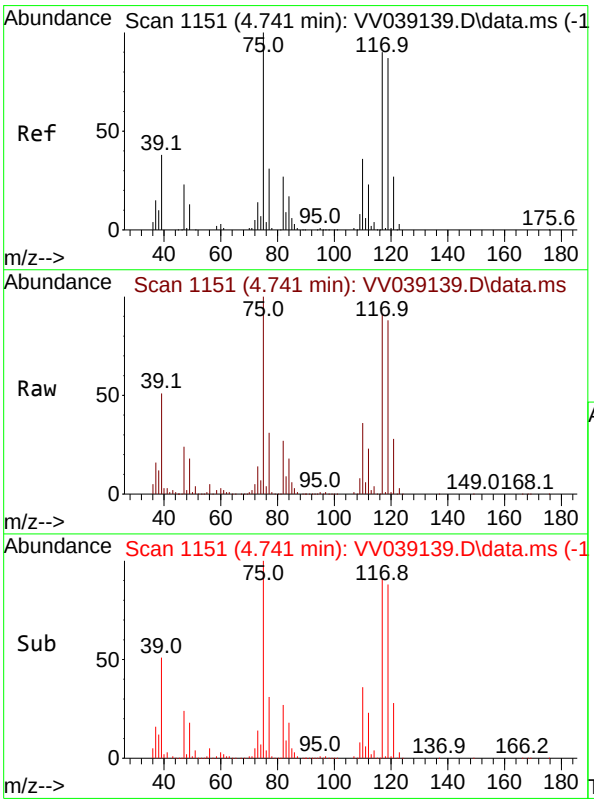
#35
Dibromofluoromethane
Concen: 46.935 ug/l
RT: 4.497 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 337386

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	17.3	13.8	20.8

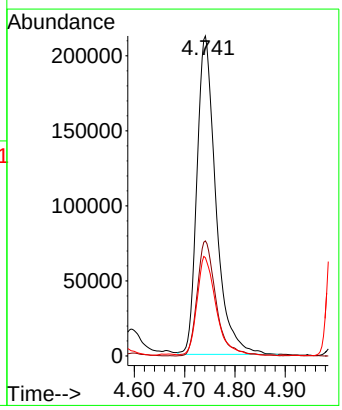


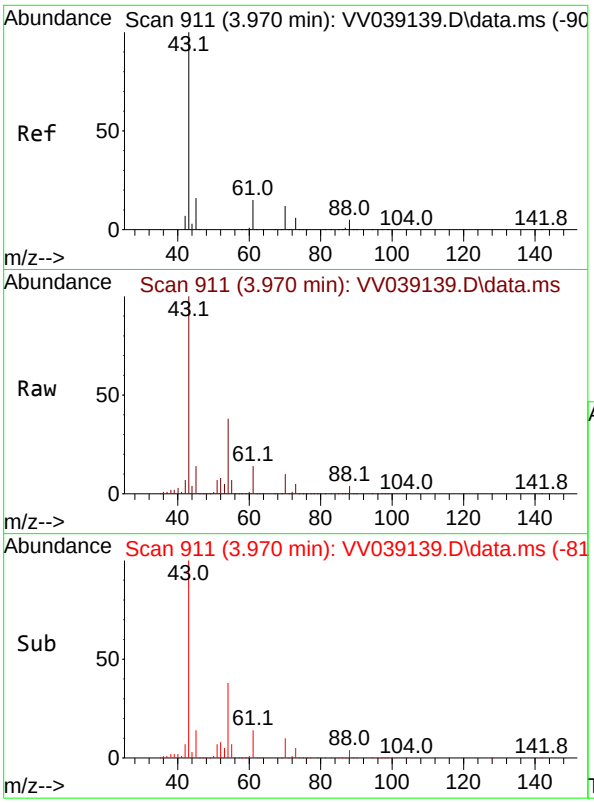


#36
1,1-Dichloropropene
Concen: 50.680 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 554798

Ion	Ratio	Lower	Upper
75	100		
110	36.1	18.1	54.1
77	31.0	24.8	37.2



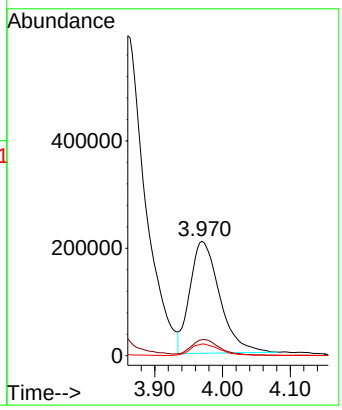


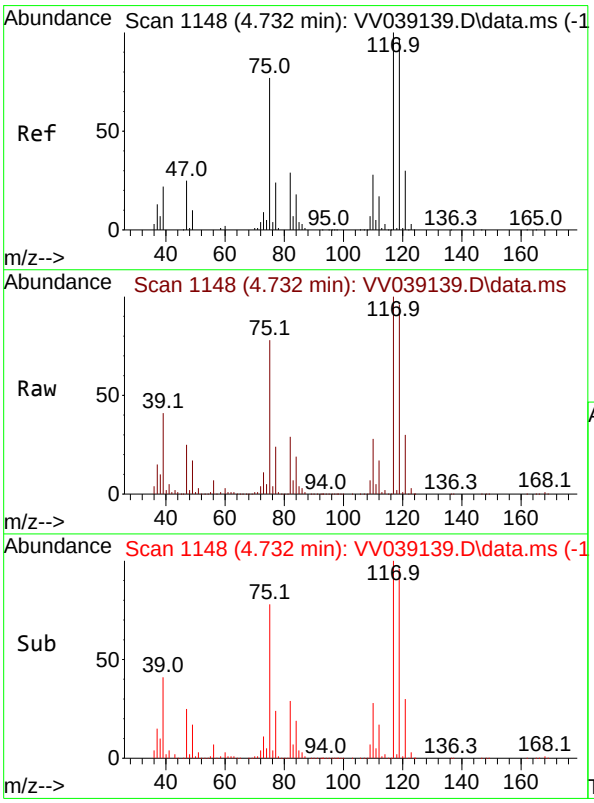
#37
Ethyl Acetate
Concen: 47.519 ug/l
RT: 3.970 min Scan# 91
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 638131

Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.3	15.5
70	10.0	8.0	12.0

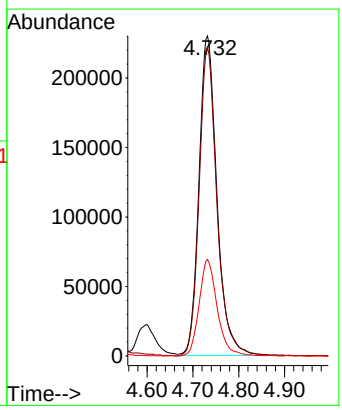


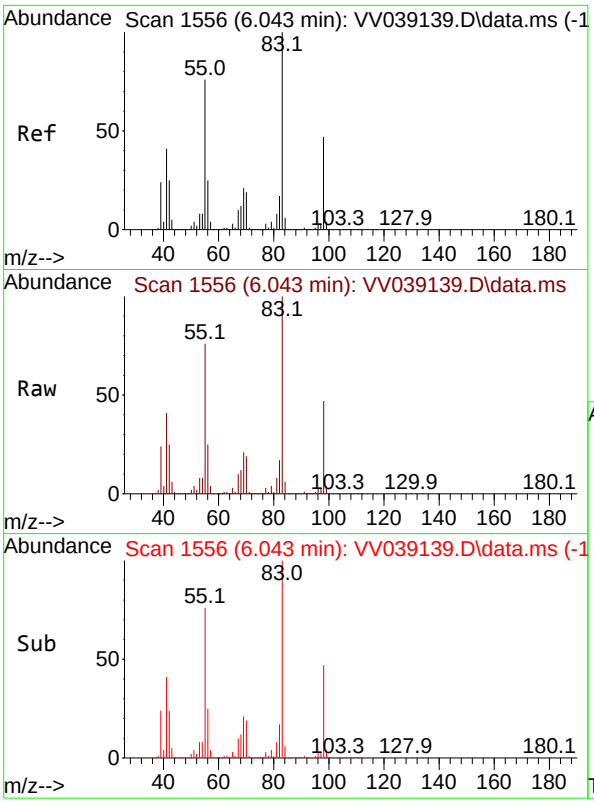


#38
Carbon Tetrachloride
Concen: 47.666 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:117 Resp: 628516

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.2	115.8
121	30.2	24.2	36.2



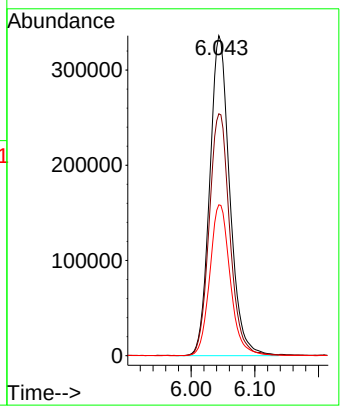


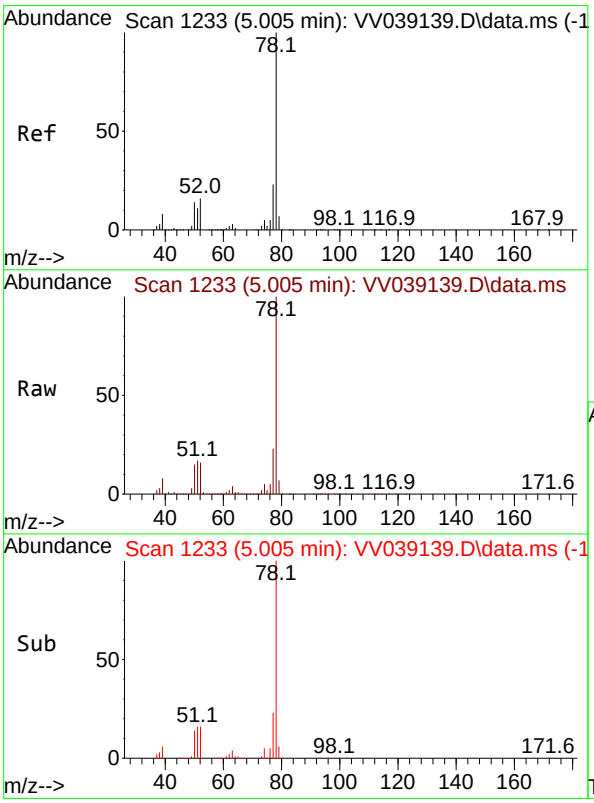
#39
Methylcyclohexane
Concen: 56.095 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 736231

Ion	Ratio	Lower	Upper
83	100		
55	75.6	60.5	90.7
98	47.2	37.8	56.6

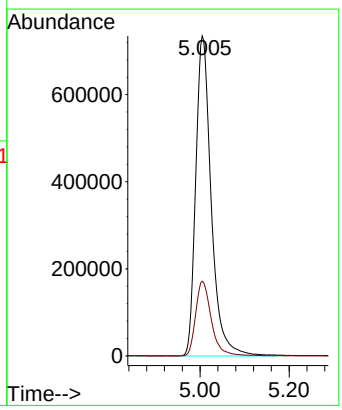


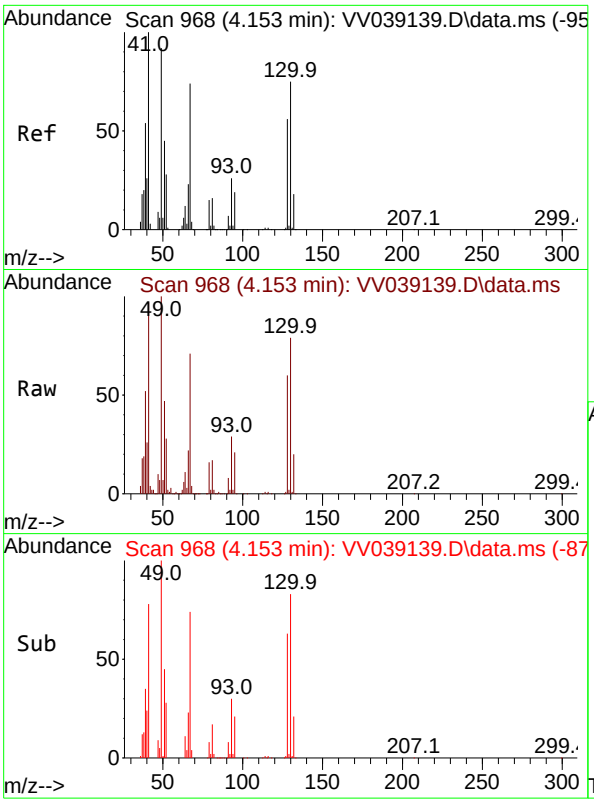


#40
Benzene
Concen: 50.276 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 78 Resp: 1779301

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1



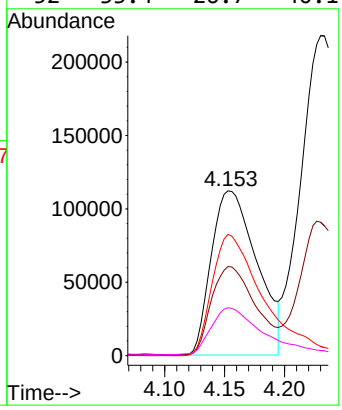


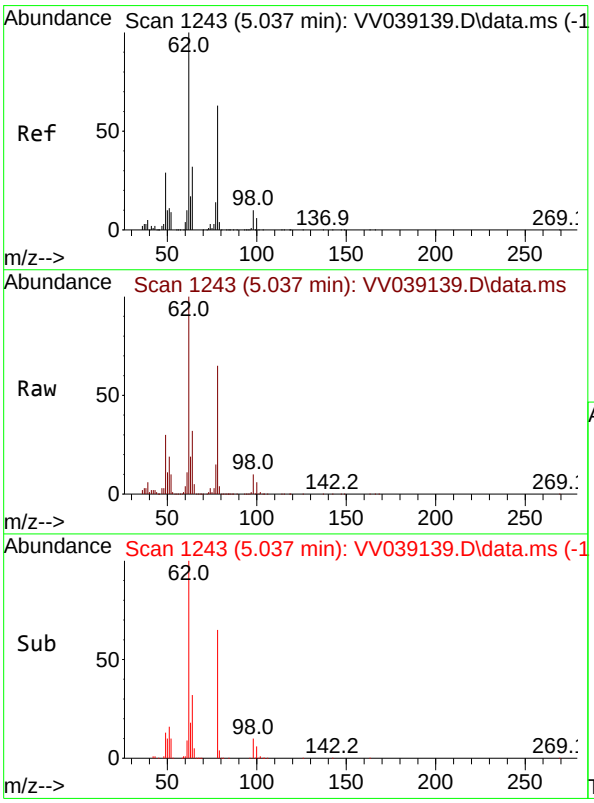
#41
Methacrylonitrile
Concen: 49.541 ug/l
RT: 4.153 min Scan# 9
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 295316

Ion	Ratio	Lower	Upper
41	100		
39	52.7	42.2	63.2
67	84.9	67.9	101.9
52	33.4	26.7	40.1

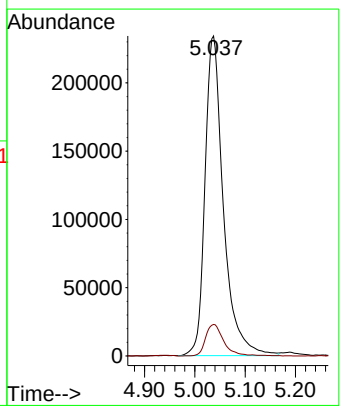


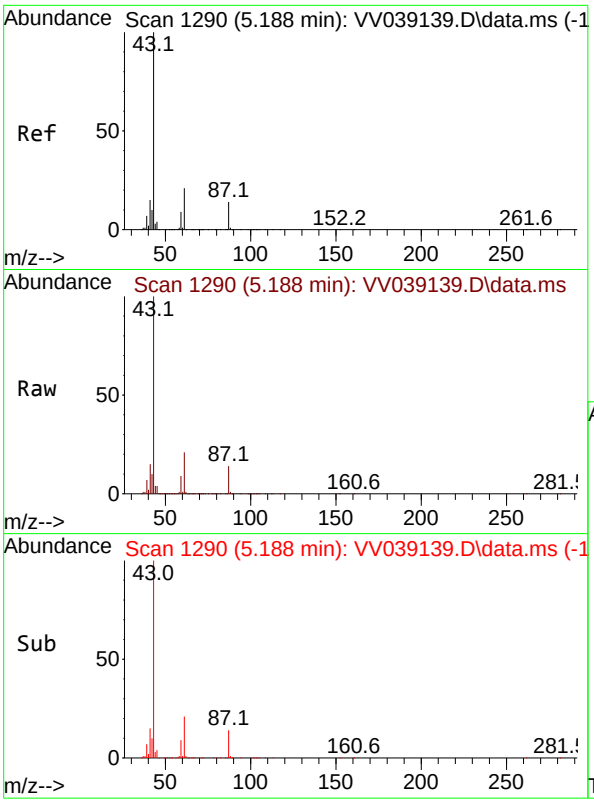


#42
1,2-Dichloroethane
Concen: 48.000 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 62 Resp: 595216

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.2



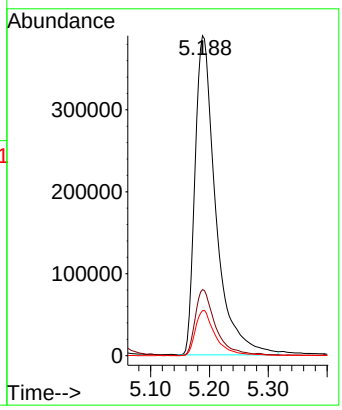


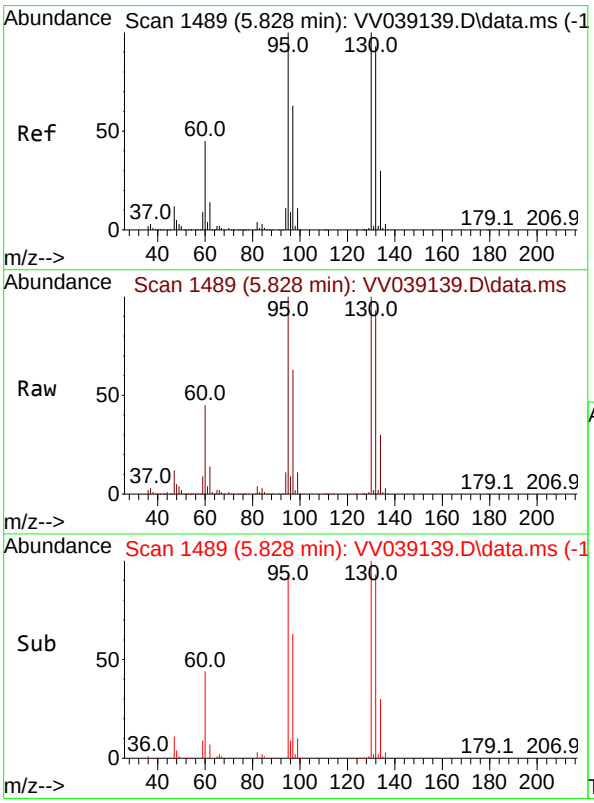
#43
Isopropyl Acetate
Concen: 51.691 ug/l
RT: 5.188 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 956288

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.9	23.9
87	13.8	11.0	16.6

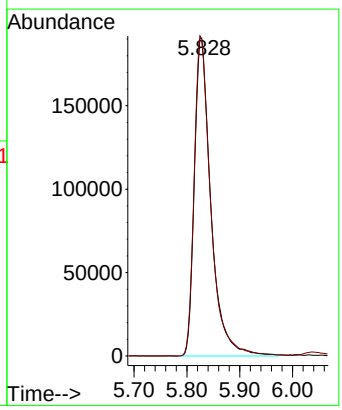


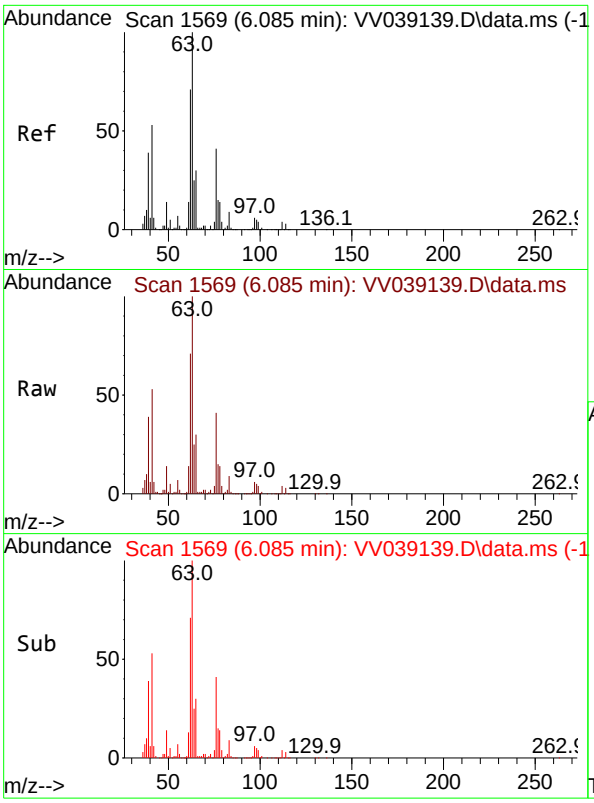


#44
Trichloroethene
Concen: 50.715 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:130 Resp: 414171

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	199.2



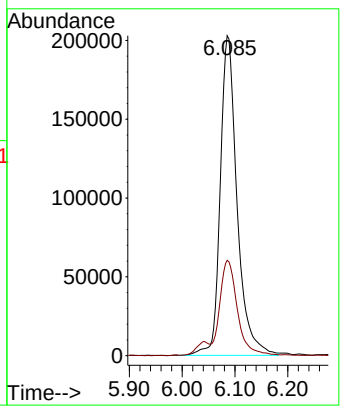


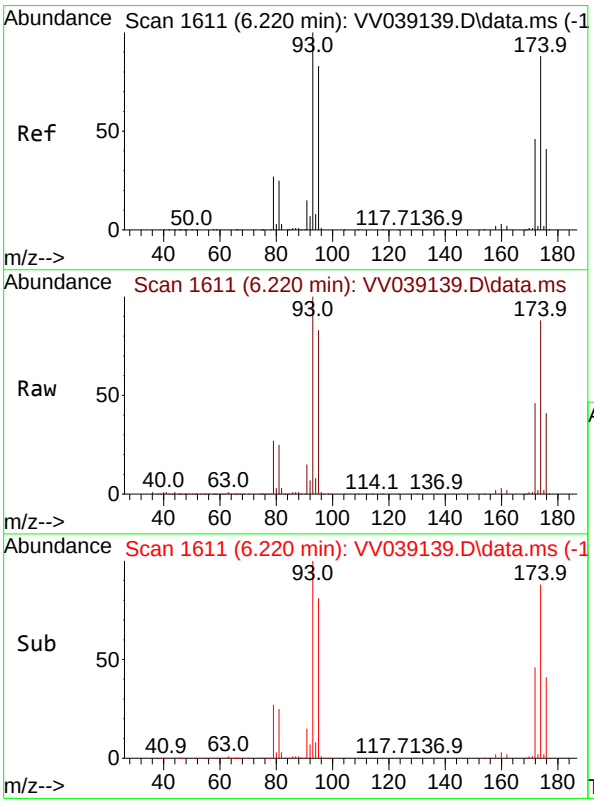
#45
1,2-Dichloropropane
Concen: 51.014 ug/l
RT: 6.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 448750

Ion	Ratio	Lower	Upper
63	100		
65	29.6	23.7	35.5

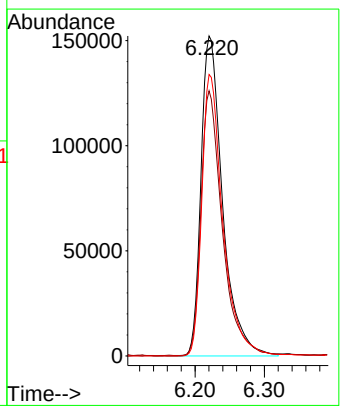


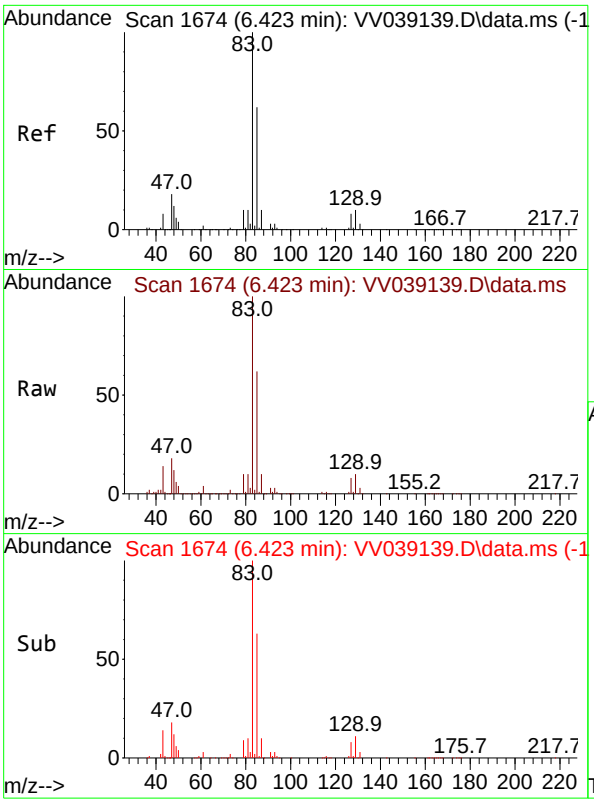


#46
Dibromomethane
Concen: 48.876 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 93 Resp: 329073

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	86.2	69.0	103.4



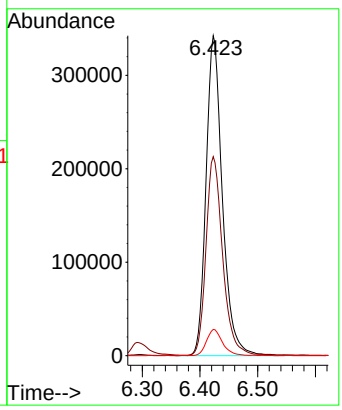


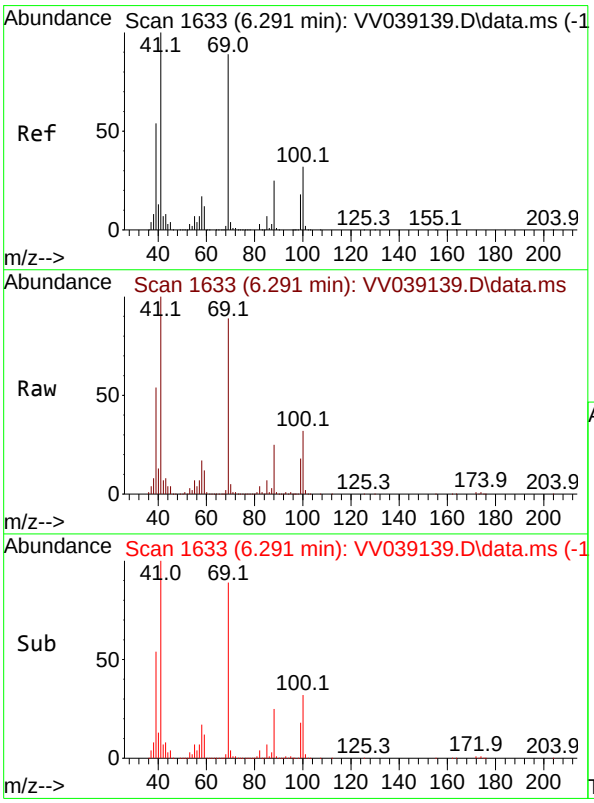
#47
Bromodichloromethane
Concen: 48.398 ug/l
RT: 6.423 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 673646

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.7	74.5
127	8.2	6.6	9.8

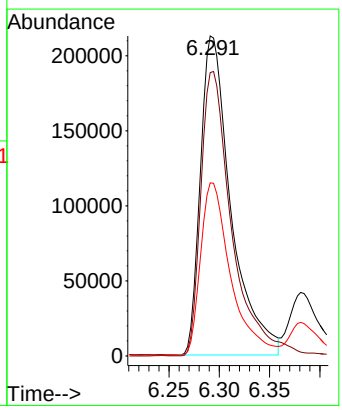


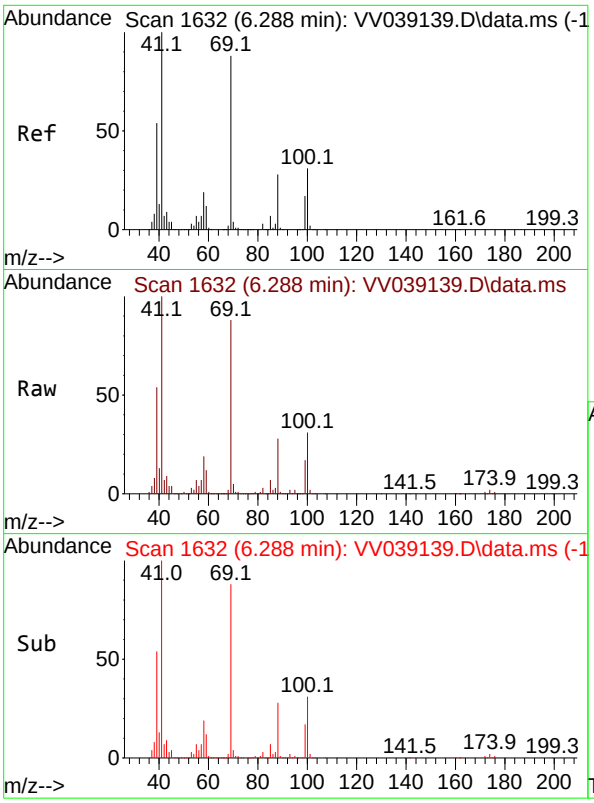


#48
Methyl methacrylate
Concen: 53.193 ug/l
RT: 6.291 min Scan# 1633
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 41 Resp: 450230

Ion	Ratio	Lower	Upper
41	100		
69	90.5	72.4	108.6
39	53.1	42.5	63.7



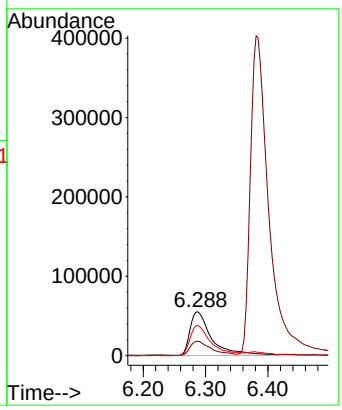


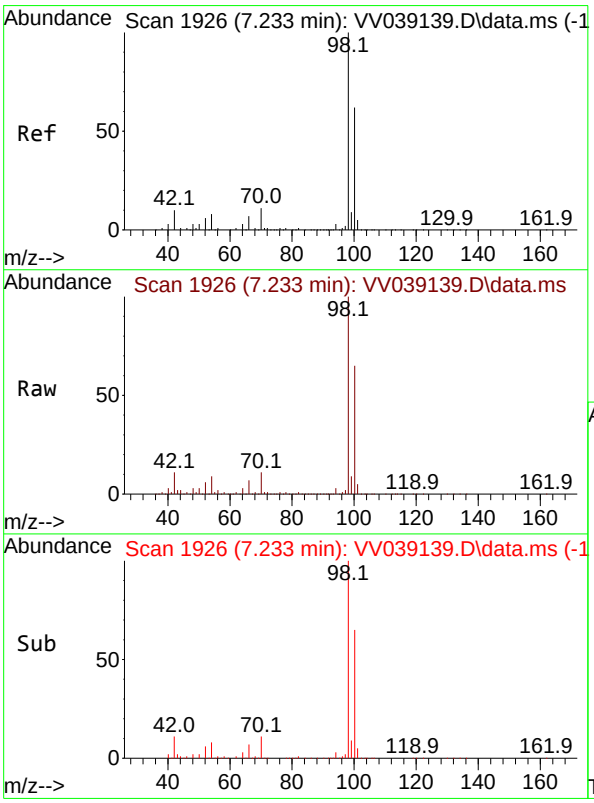
#49
1,4-Dioxane
Concen: 1006.069 ug/l
RT: 6.288 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 133834

Ion	Ratio	Lower	Upper
88	100		
43	31.4	25.1	37.7
58	67.0	53.6	80.4

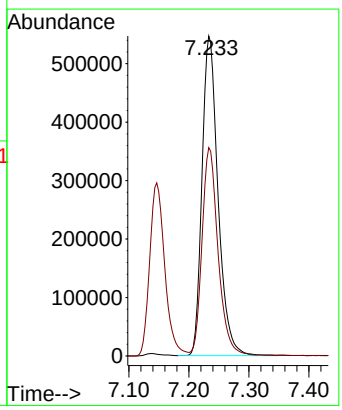


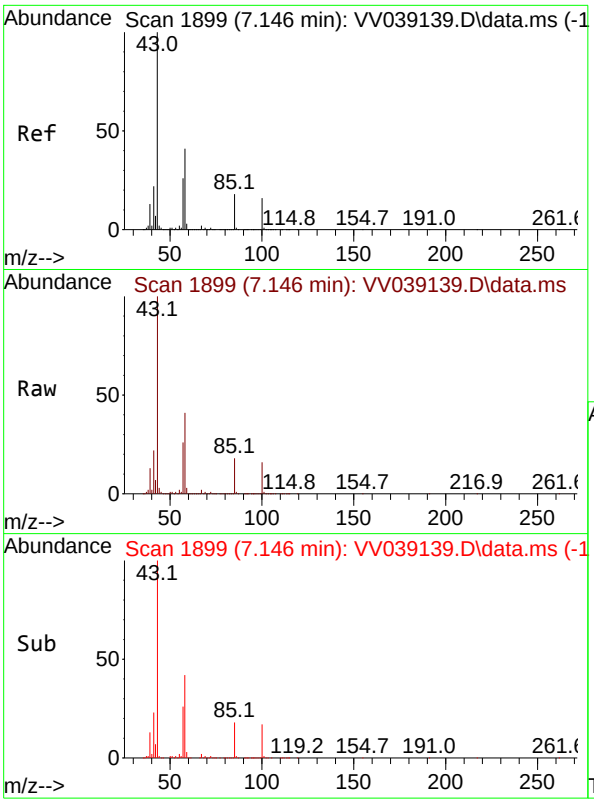


#50
Toluene-d8
Concen: 48.130 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 98 Resp: 1016135

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2



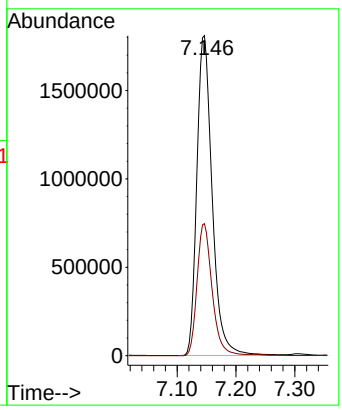


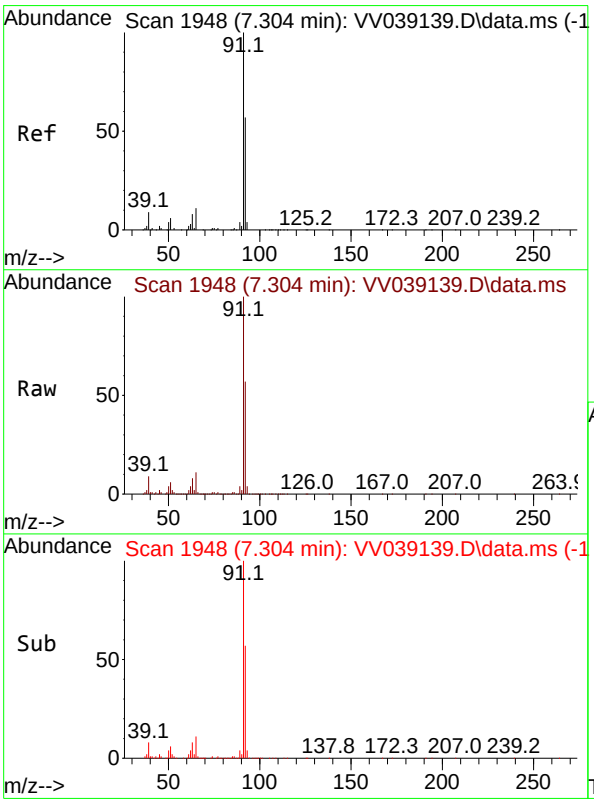
#51
4-Methyl-2-Pentanone
Concen: 276.753 ug/l
RT: 7.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 3273840

Ion	Ratio	Lower	Upper
43	100		
58	40.4	32.3	48.5

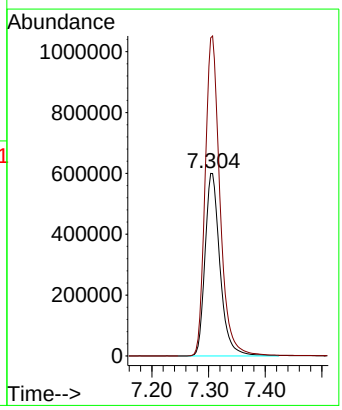


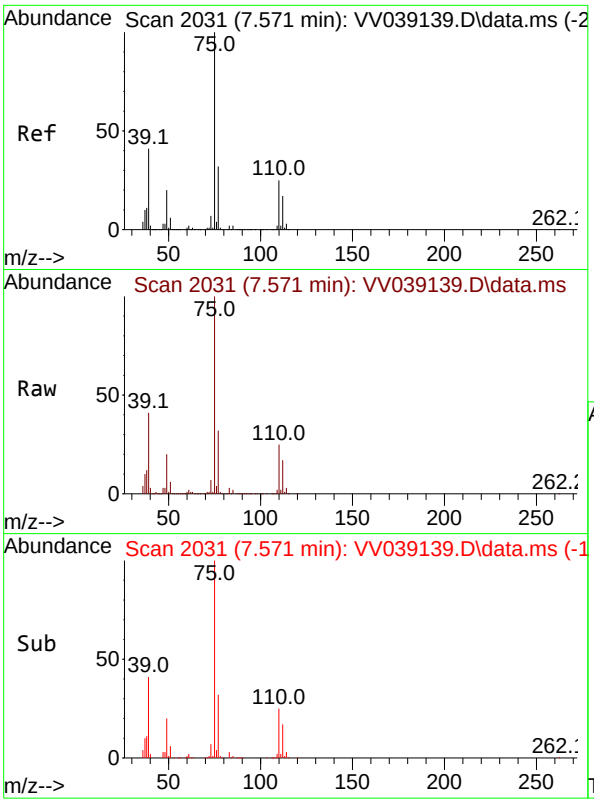


#52
Toluene
Concen: 53.574 ug/l
RT: 7.304 min Scan# 1948
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 92 Resp: 1099325

Ion	Ratio	Lower	Upper
92	100		
91	174.0	139.2	208.8



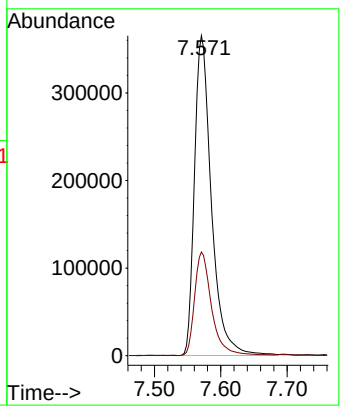


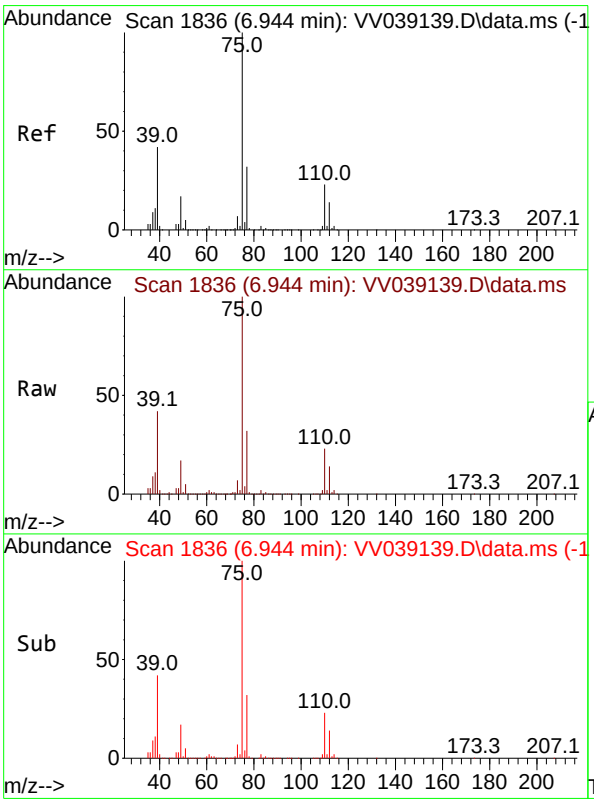
#53
t-1,3-Dichloropropene
Concen: 53.666 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 650976

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.9	38.9

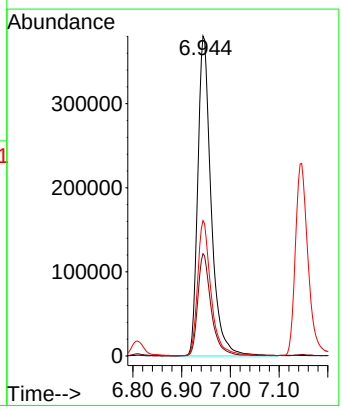


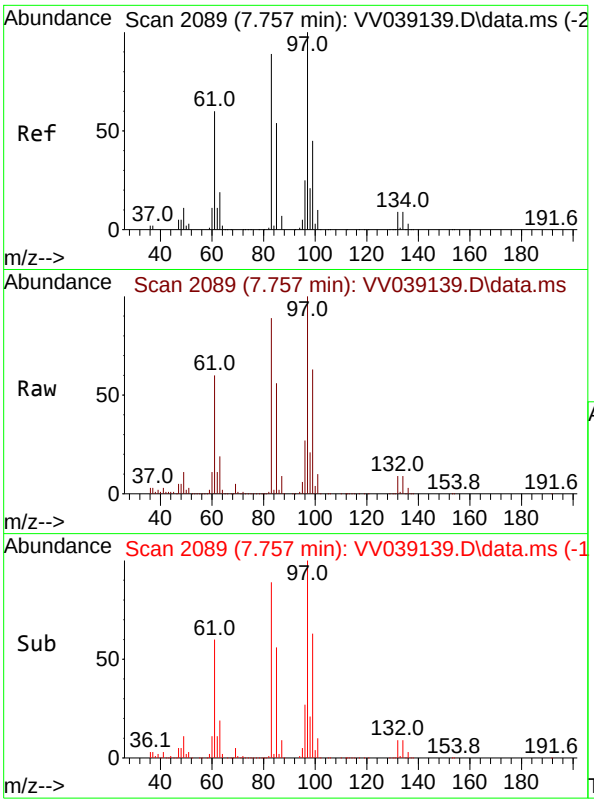


#54
cis-1,3-Dichloropropene
Concen: 54.142 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 725015

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.5	38.3
39	42.2	33.8	50.6



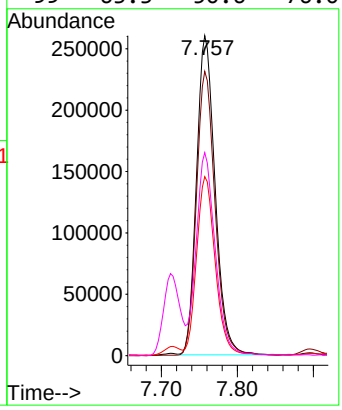


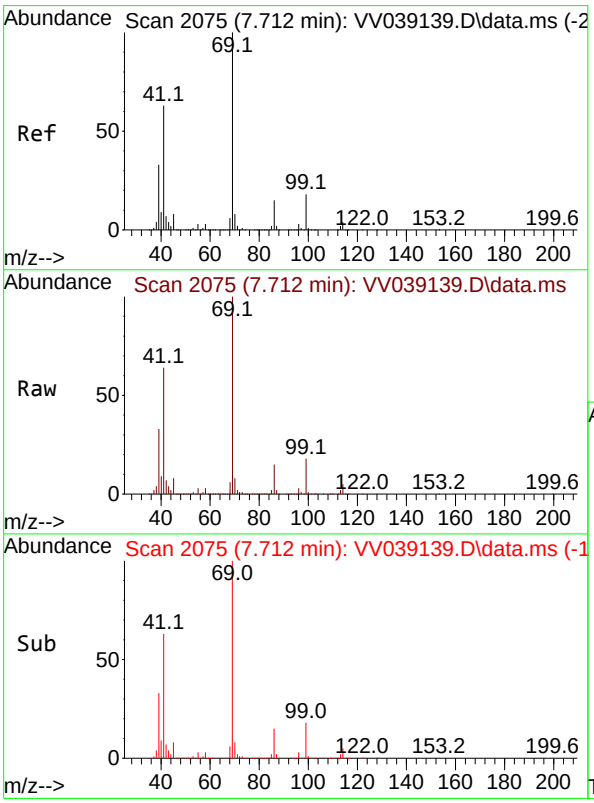
#55
1,1,2-Trichloroethane
Concen: 48.020 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 441822

Ion	Ratio	Lower	Upper
97	100		
83	88.9	71.1	106.7
85	55.8	44.6	67.0
99	63.3	50.6	76.0

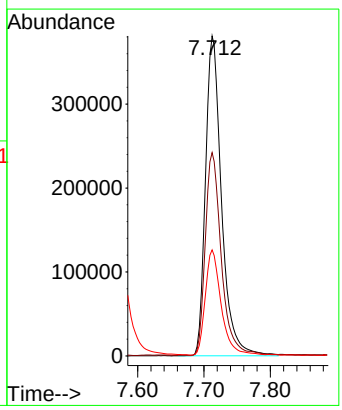


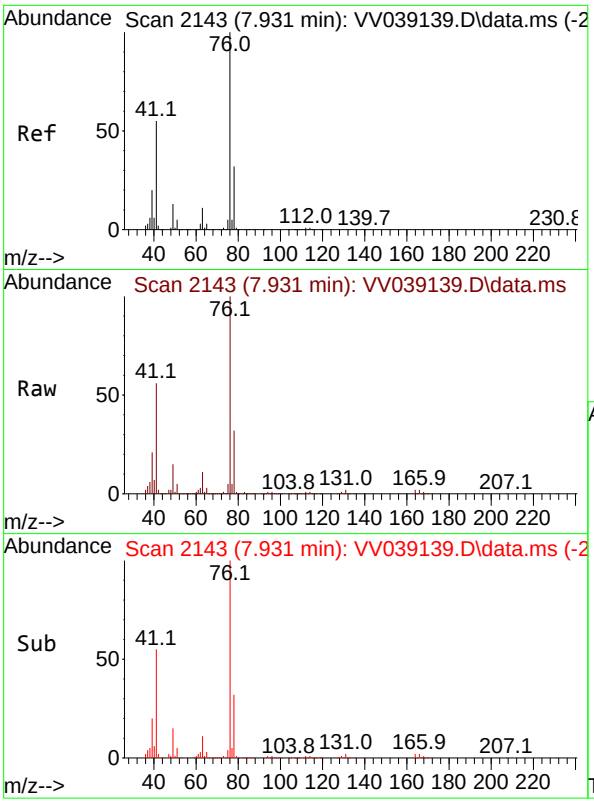


#56
Ethyl methacrylate
Concen: 58.632 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 69 Resp: 640636

Ion	Ratio	Lower	Upper
69	100		
41	63.4	50.7	76.1
39	32.5	26.0	39.0



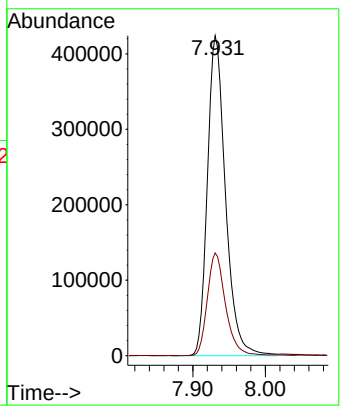


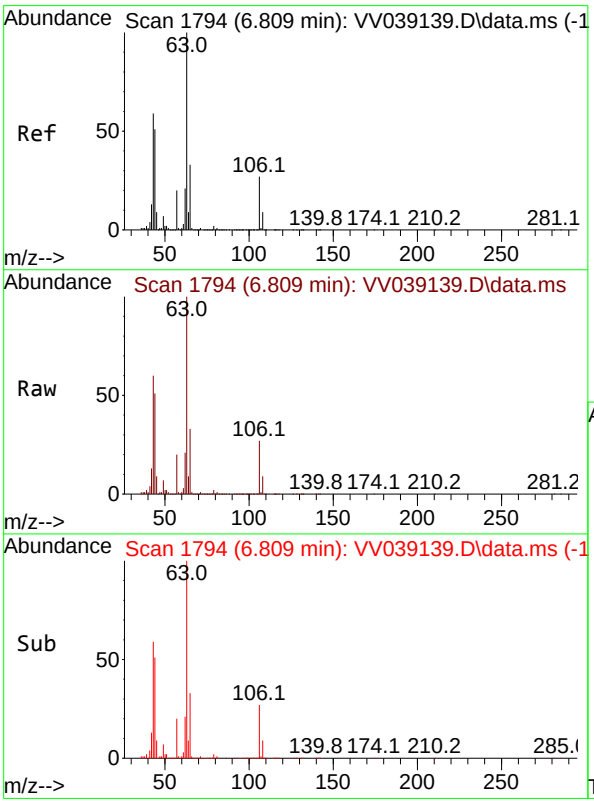
#57
1,3-Dichloropropane
Concen: 50.505 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 733341

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.1	39.1

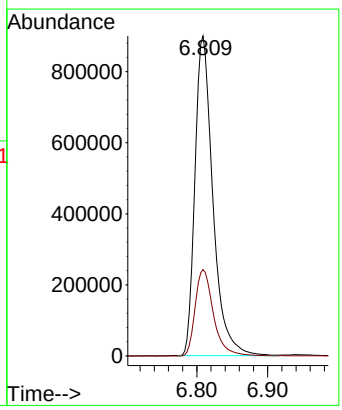


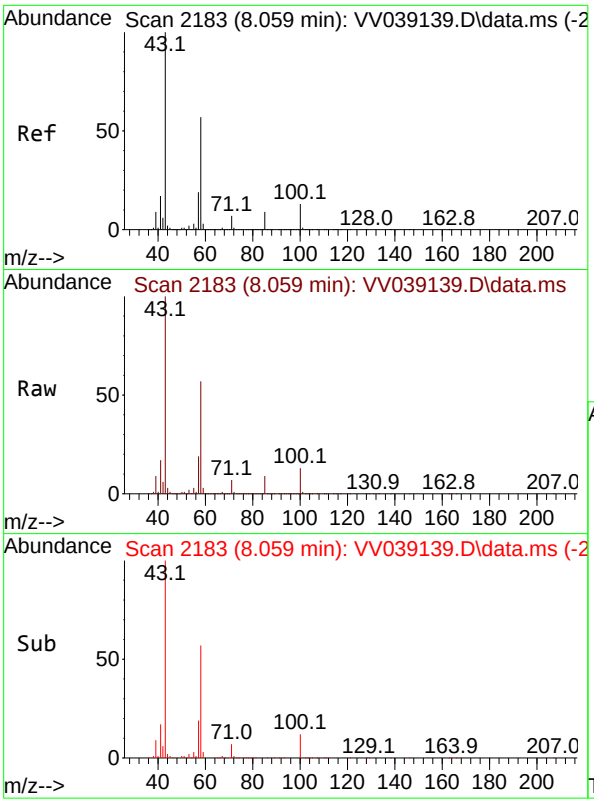


#58
2-Chloroethyl Vinyl ether
Concen: 255.700 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 63 Resp: 1579407

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.1	33.1



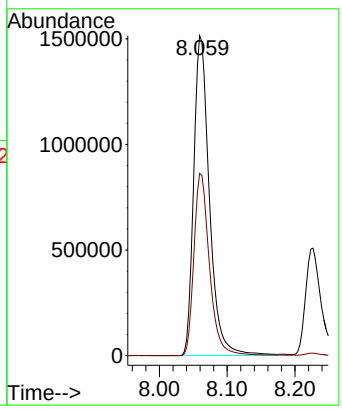


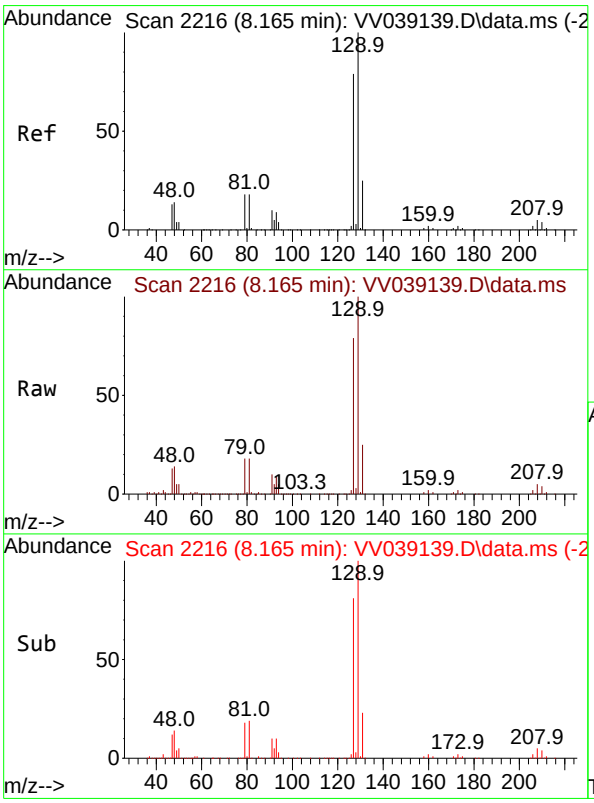
#59
2-Hexanone
Concen: 255.630 ug/l
RT: 8.059 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 2441880

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0

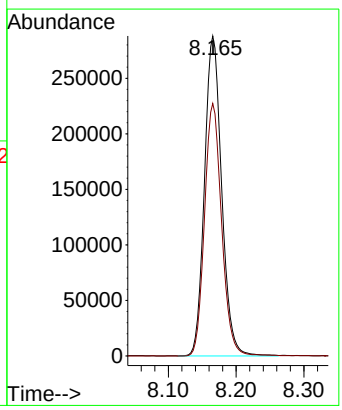


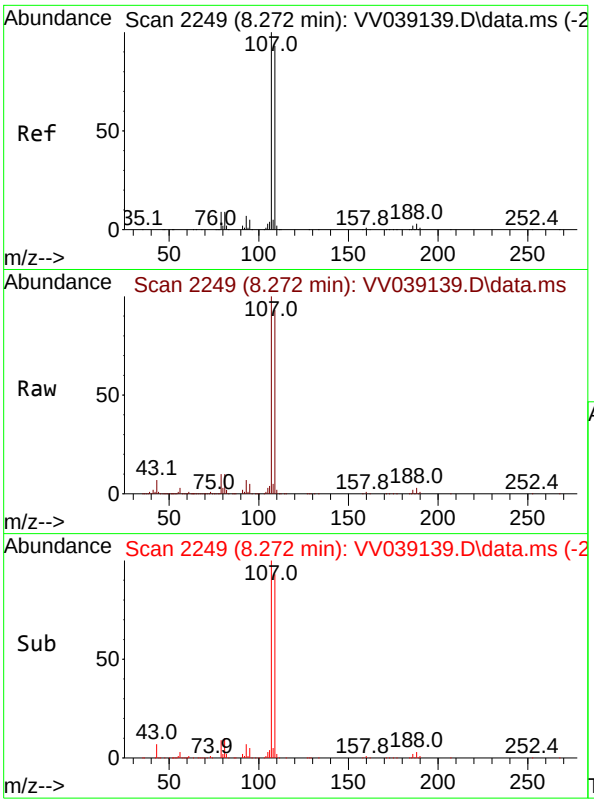


#60
Dibromochloromethane
Concen: 48.365 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:129 Resp: 507043

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9



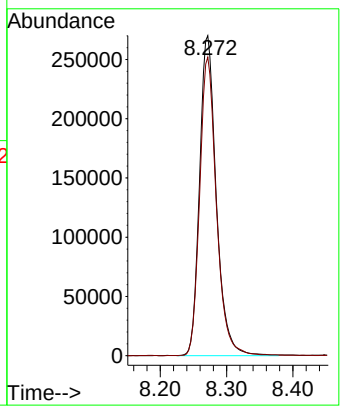


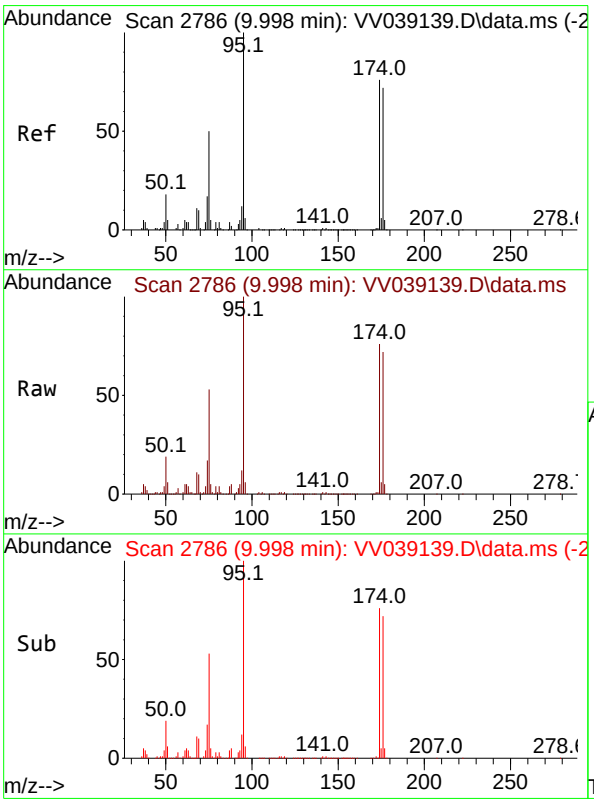
#61
1,2-Dibromoethane
Concen: 50.273 ug/l
RT: 8.272 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 473037

Ion	Ratio	Lower	Upper
107	100		
109	93.3	74.6	112.0

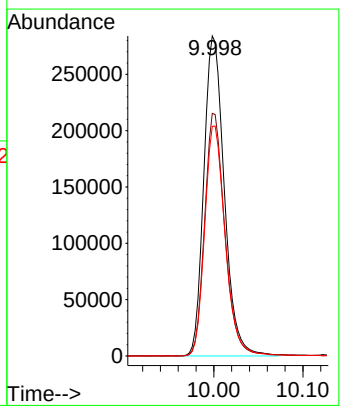


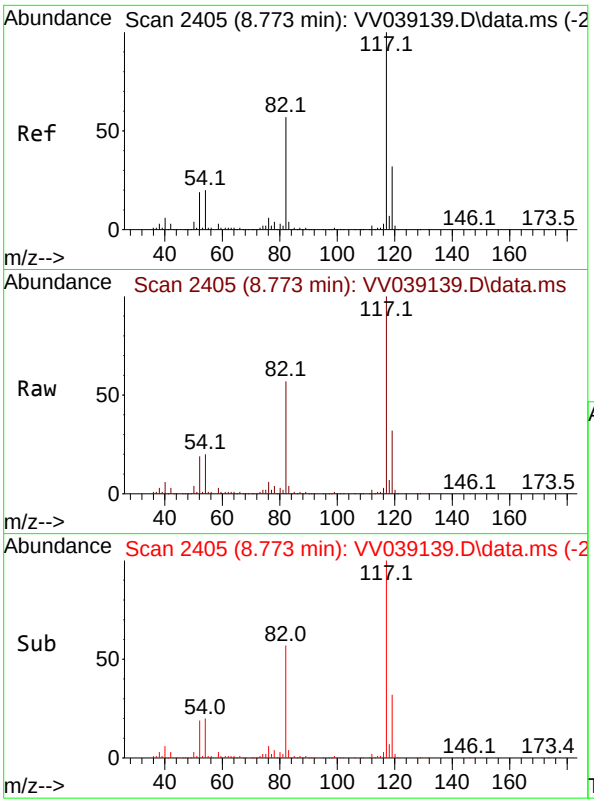


#62
4-Bromofluorobenzene
Concen: 52.130 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 95 Resp: 453081

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	150.4
176	72.1	0.0	144.2



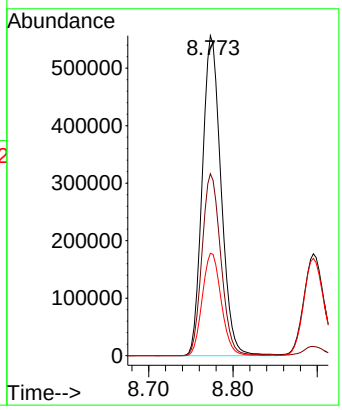


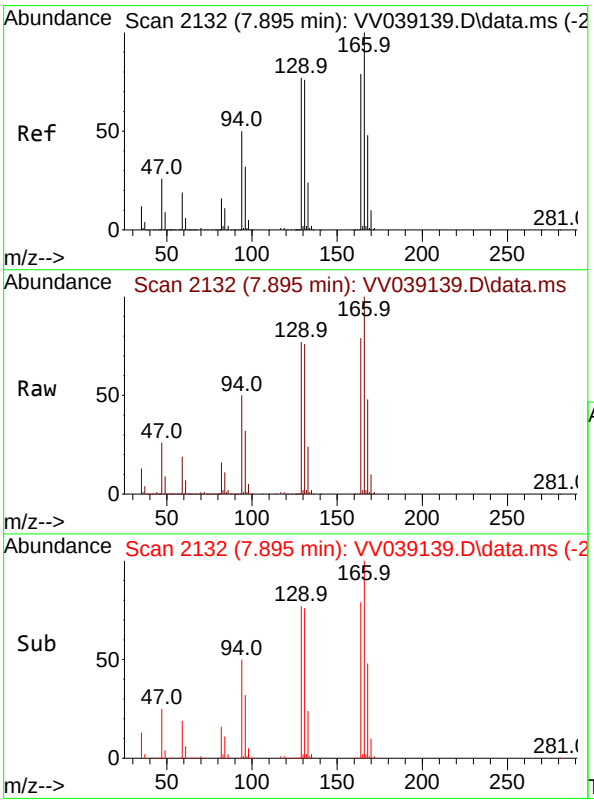
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 863906

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.4	68.2
119	32.0	25.6	38.4

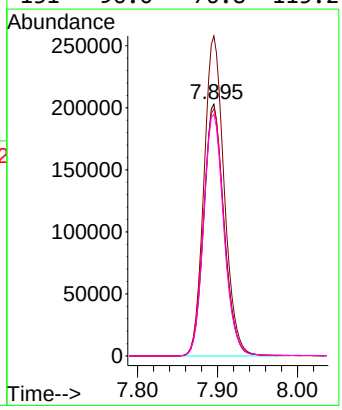


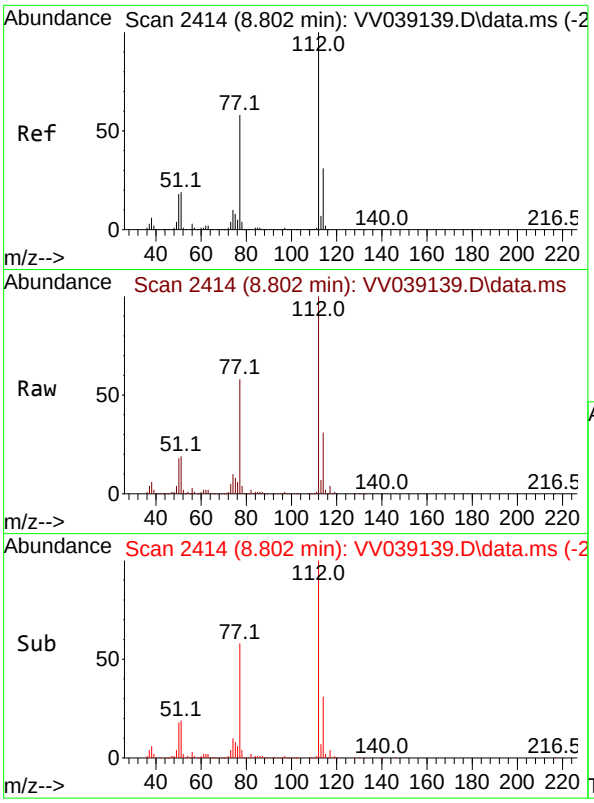


#64
Tetrachloroethene
Concen: 49.227 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:164 Resp: 356209

Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.6	152.4
129	98.1	78.5	117.7
131	96.0	76.8	115.2



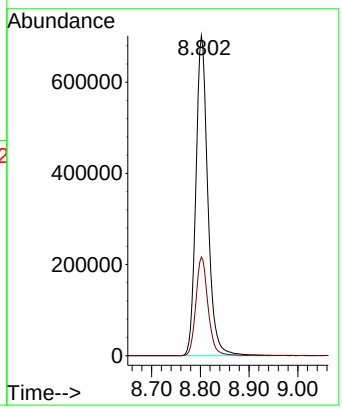


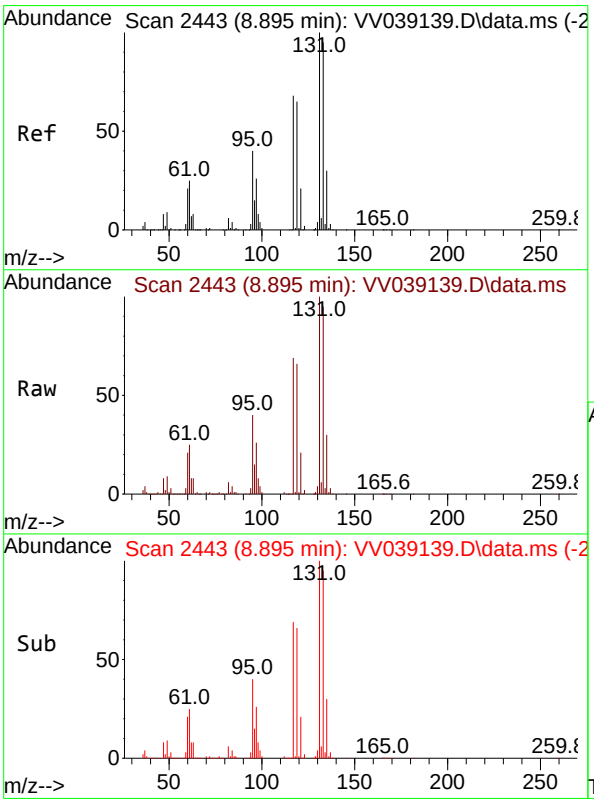
#65
Chlorobenzene
Concen: 49.651 ug/l
RT: 8.802 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 1194769

Ion	Ratio	Lower	Upper
112	100		
114	30.8	24.6	37.0

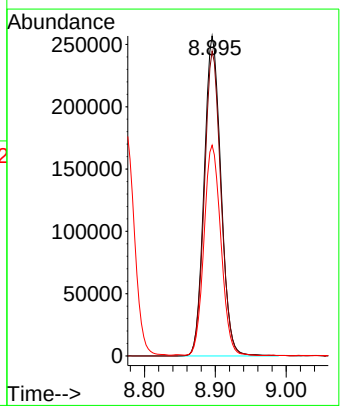


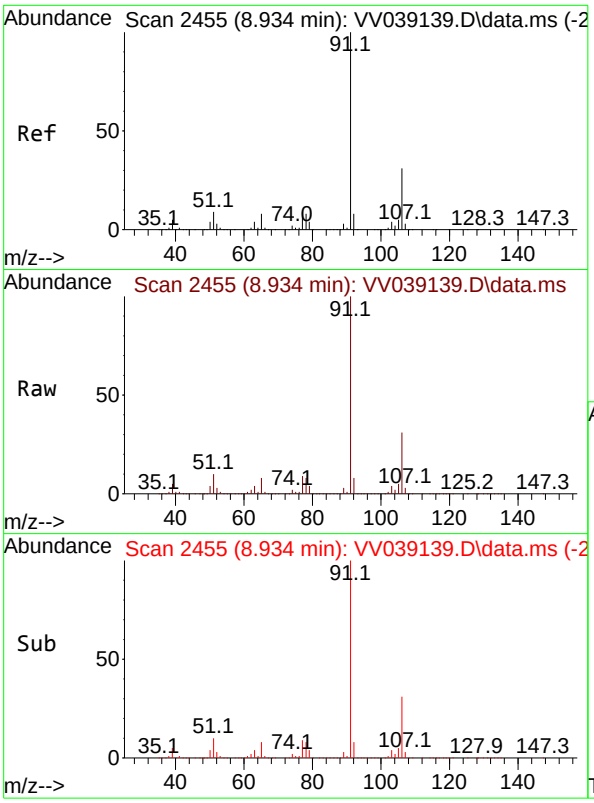


#66
1,1,1,2-Tetrachloroethane
Concen: 48.507 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:131 Resp: 421762

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	66.5	33.3	99.8



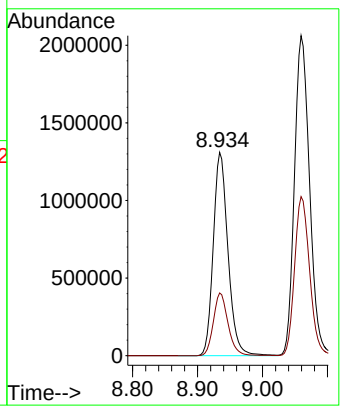


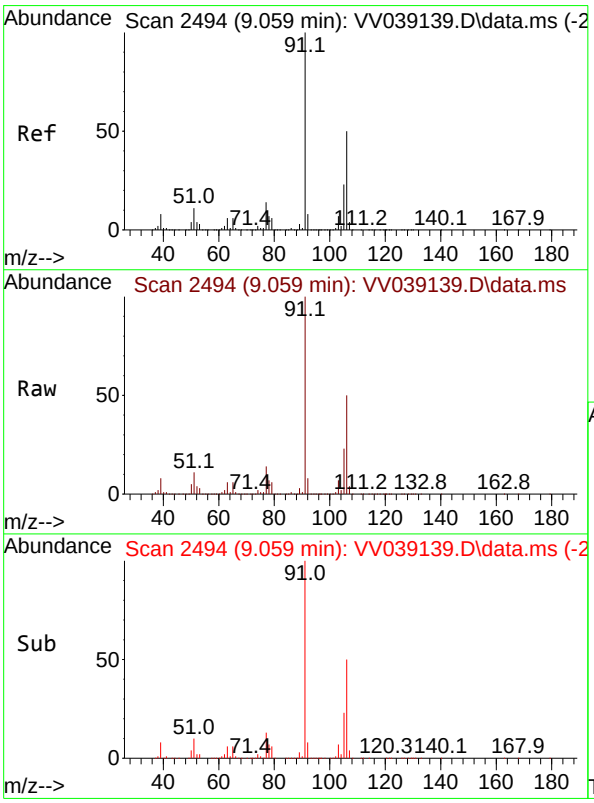
#67
Ethyl Benzene
Concen: 56.487 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 2057558

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	37.0

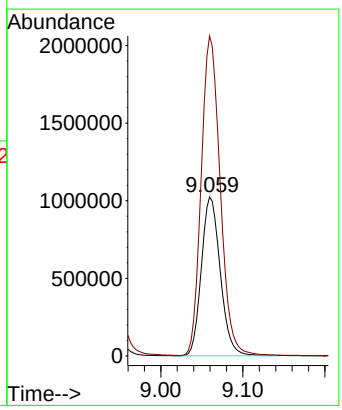


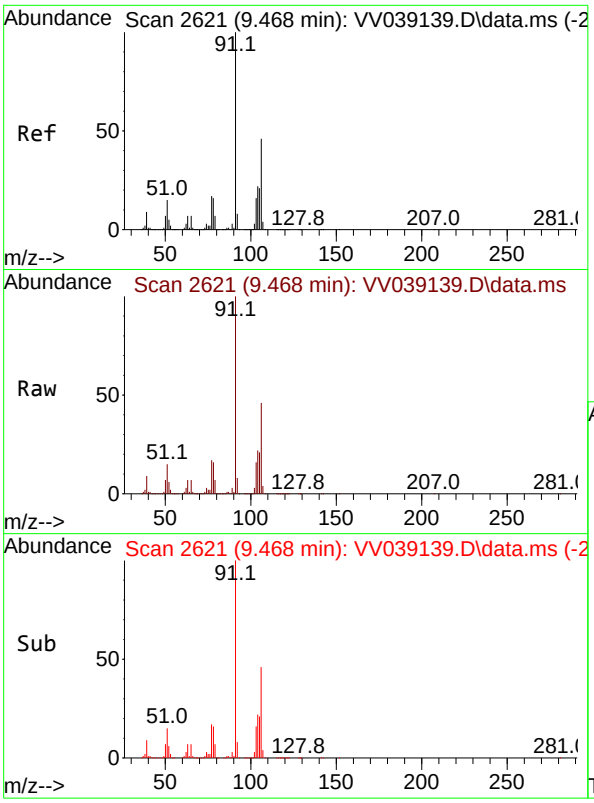


#68
m/p-Xylenes
Concen: 116.591 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:106 Resp: 1639130

Ion	Ratio	Lower	Upper
106	100		
91	203.1	162.5	243.7



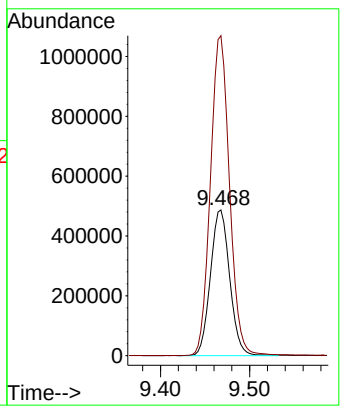


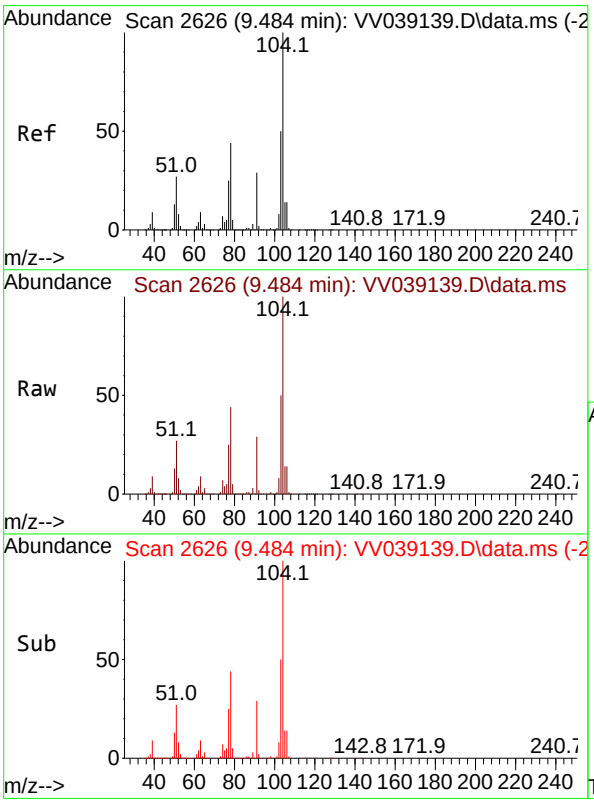
#69
o-Xylene
Concen: 58.688 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 730558

Ion	Ratio	Lower	Upper
106	100		
91	218.2	109.1	327.3

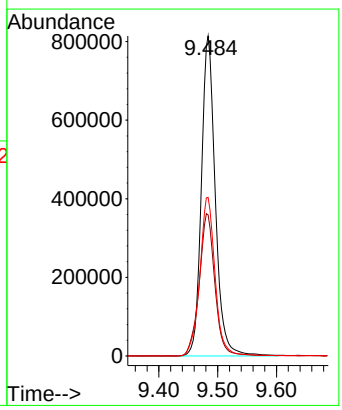


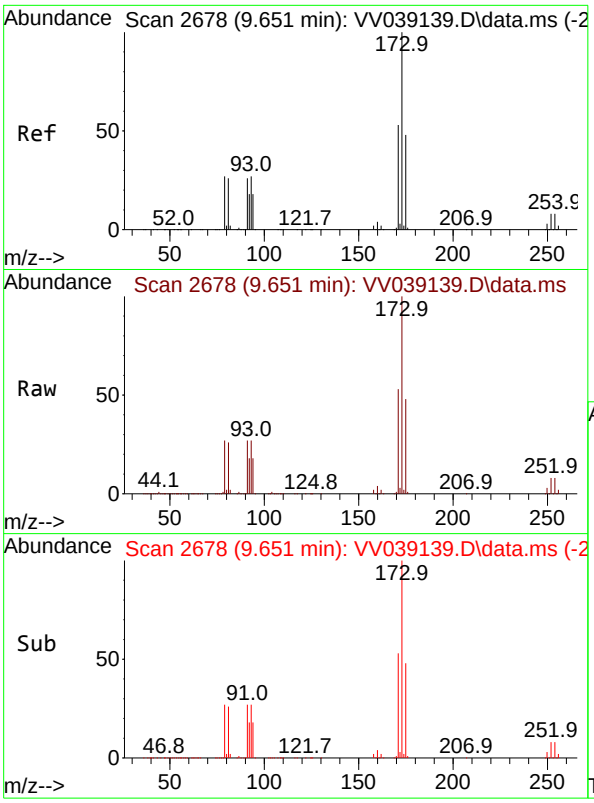


#70
Styrene
Concen: 50.845 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:104 Resp: 1341298

Ion	Ratio	Lower	Upper
104	100		
78	49.7	39.8	59.6
103	54.3	43.4	65.2



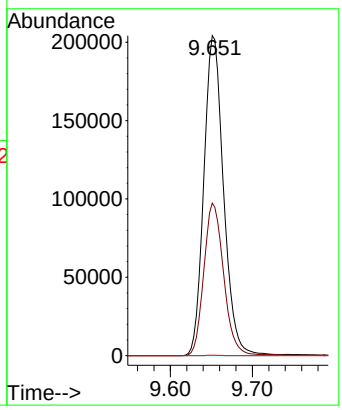


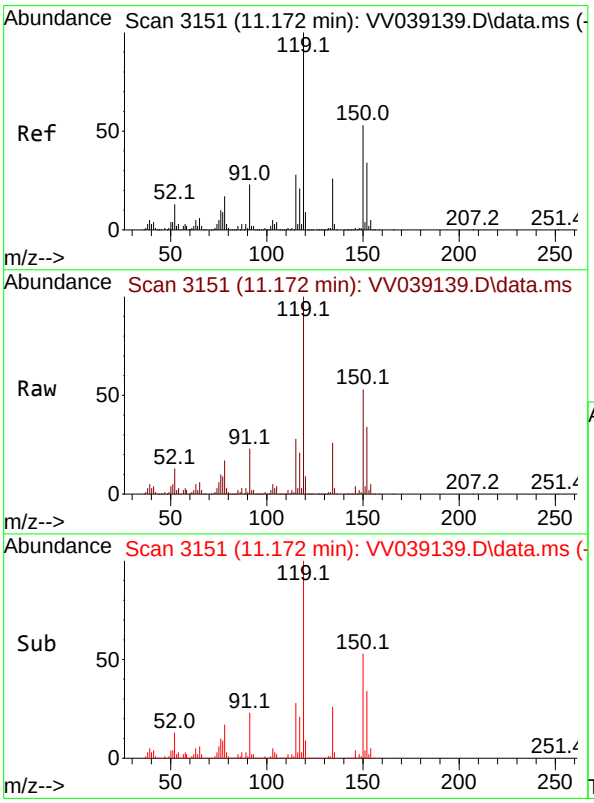
#71
Bromoform
Concen: 50.337 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 341871

Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.9	71.7
254	0.1	0.1	0.1

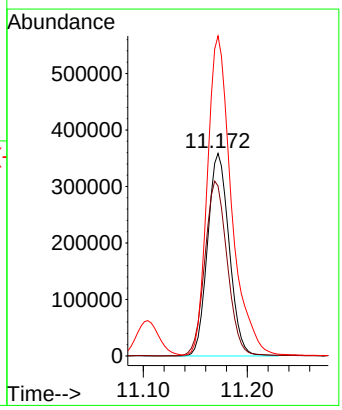


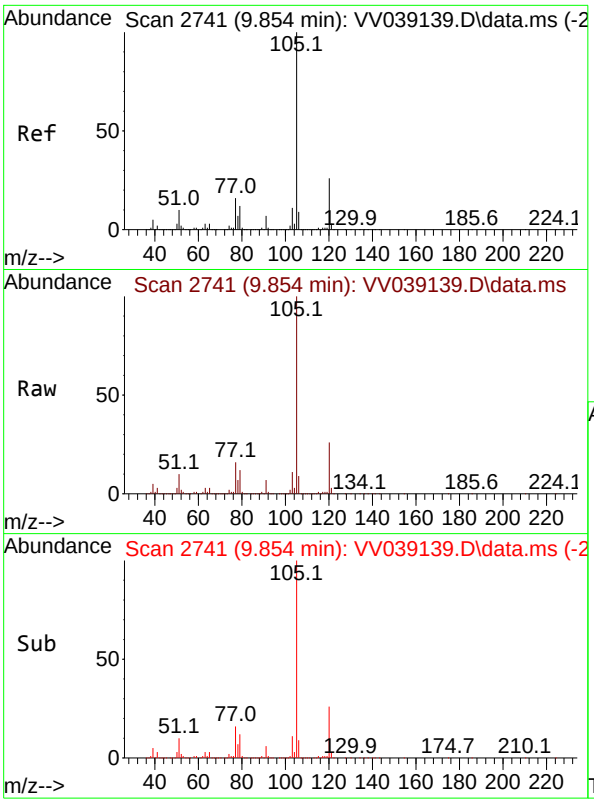


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:152 Resp: 516167

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.8	134.4
150	176.9	0.0	353.8



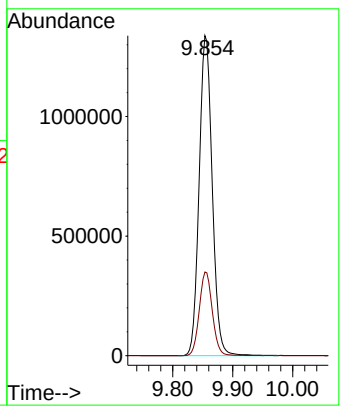


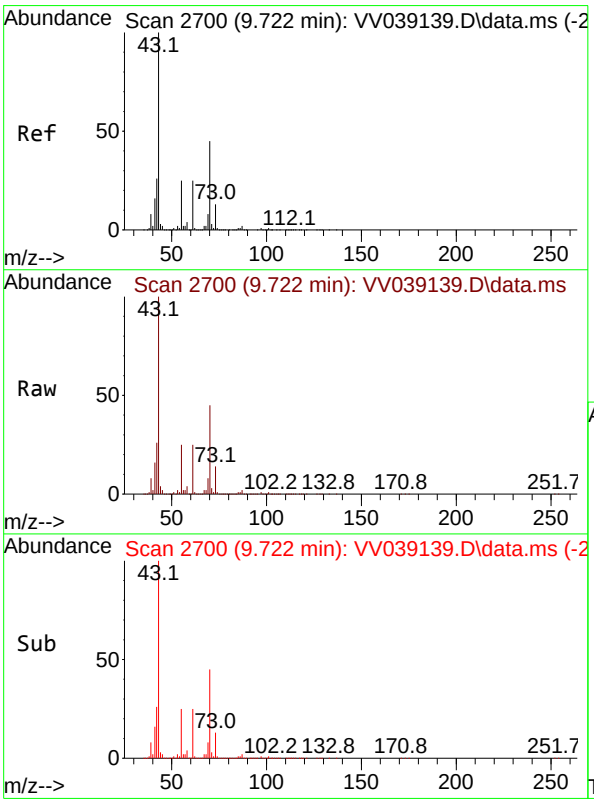
#73
Isopropylbenzene
Concen: 54.313 ug/l
RT: 9.854 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 2033373

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.1	39.1

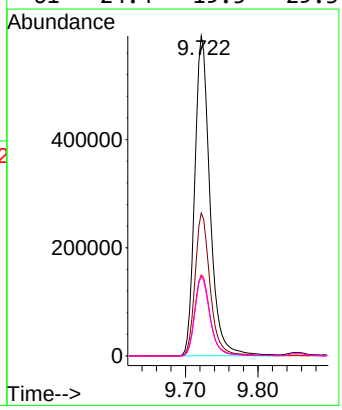


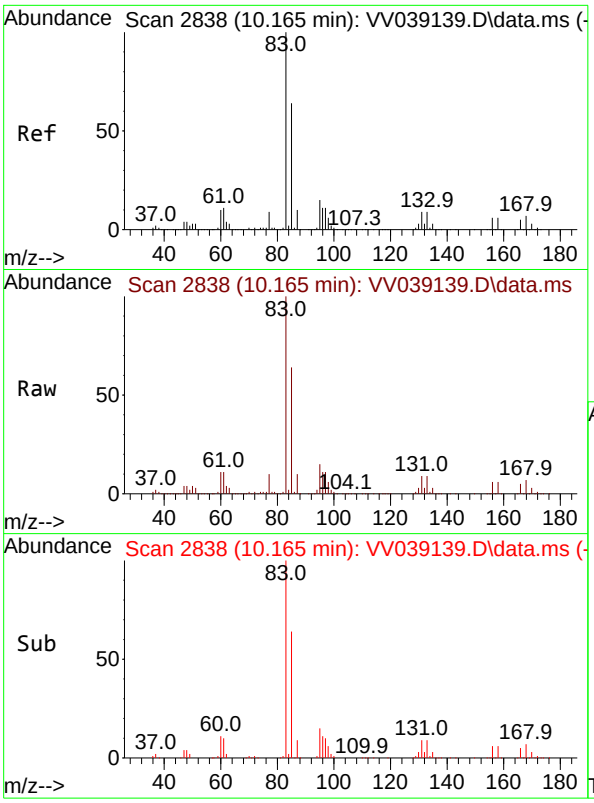


#74
N-amyl acetate
Concen: 57.833 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 863632

Ion	Ratio	Lower	Upper
43	100		
70	44.2	35.4	53.0
55	25.7	20.6	30.8
61	24.4	19.5	29.3



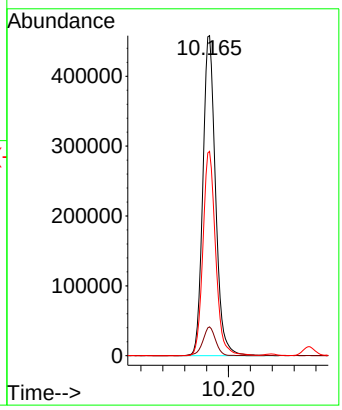


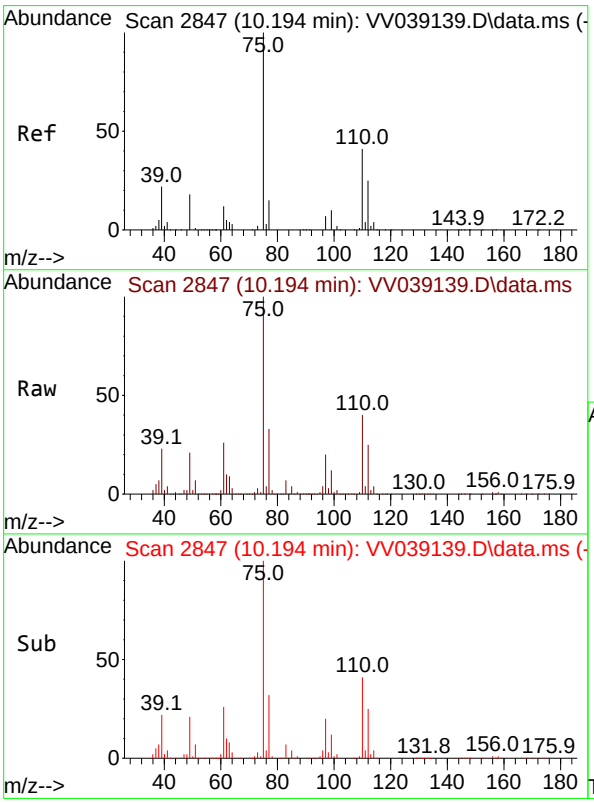
#75
1,1,2,2-Tetrachloroethane
Concen: 44.844 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 735590

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	63.9	31.9	95.9

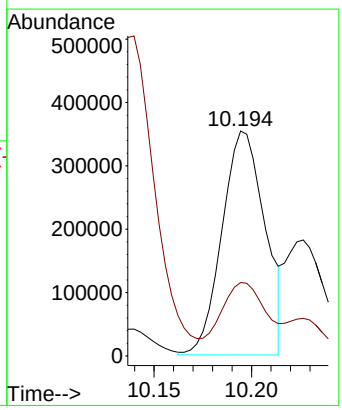


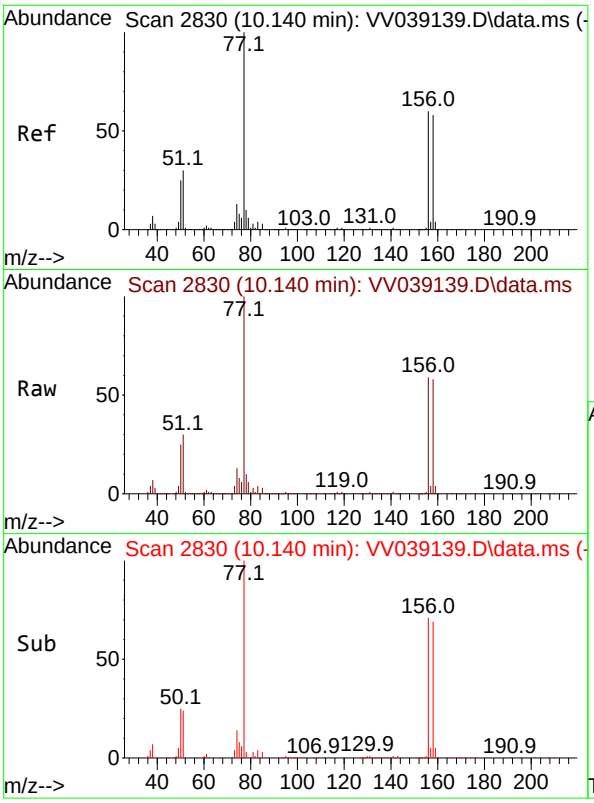


#76
1,2,3-Trichloropropane
Concen: 46.080 ug/l
RT: 10.194 min Scan# 2847
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 541552

Ion	Ratio	Lower	Upper
75	100		
77	22.5	11.3	33.8



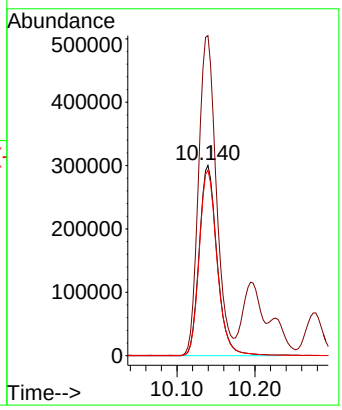


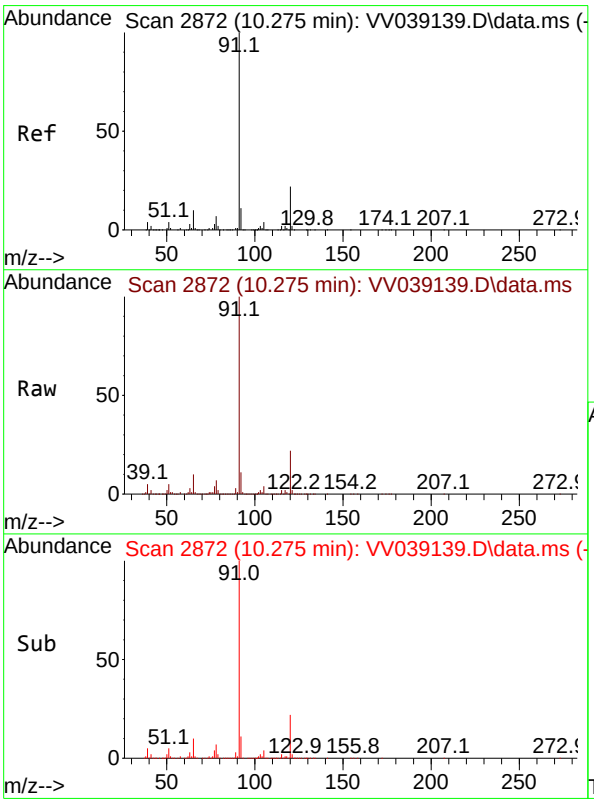
#77
Bromobenzene
Concen: 49.171 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 477608

Ion	Ratio	Lower	Upper
156	100		
77	166.7	83.4	250.1
158	97.6	48.8	146.4

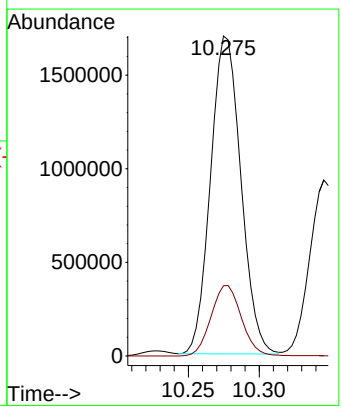


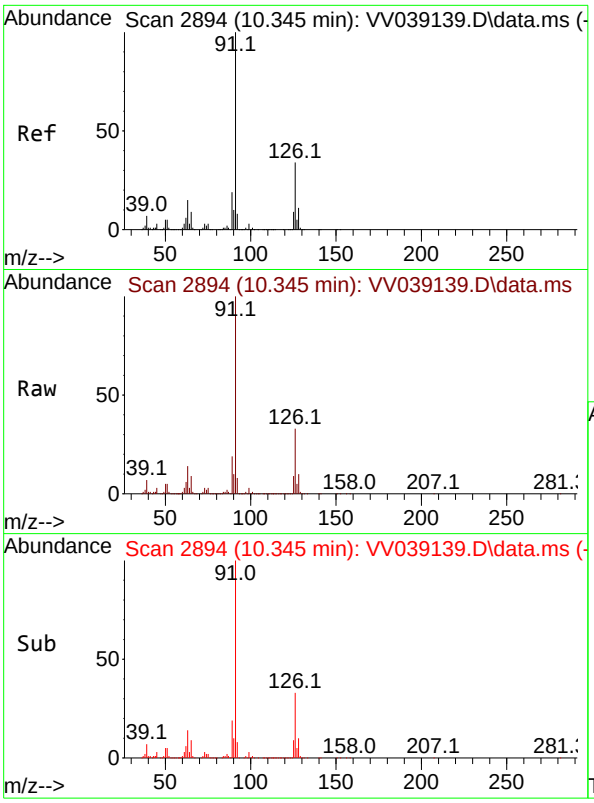


#78
n-propylbenzene
Concen: 55.461 ug/l
RT: 10.275 min Scan# 2872
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 2528458

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



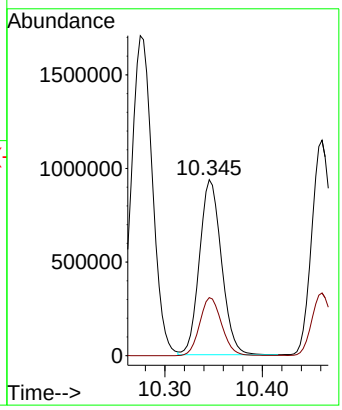


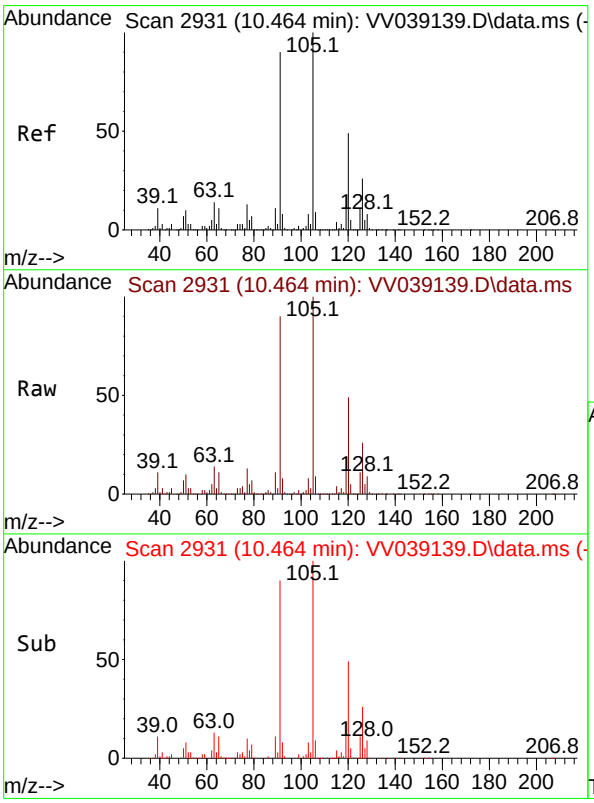
#79
2-Chlorotoluene
Concen: 53.612 ug/l
RT: 10.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1462530

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.0

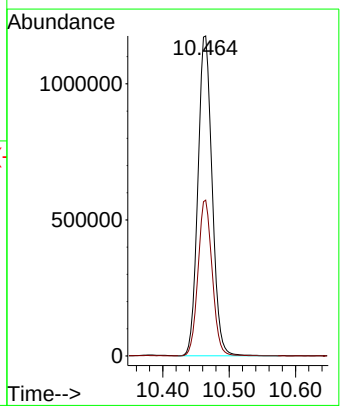


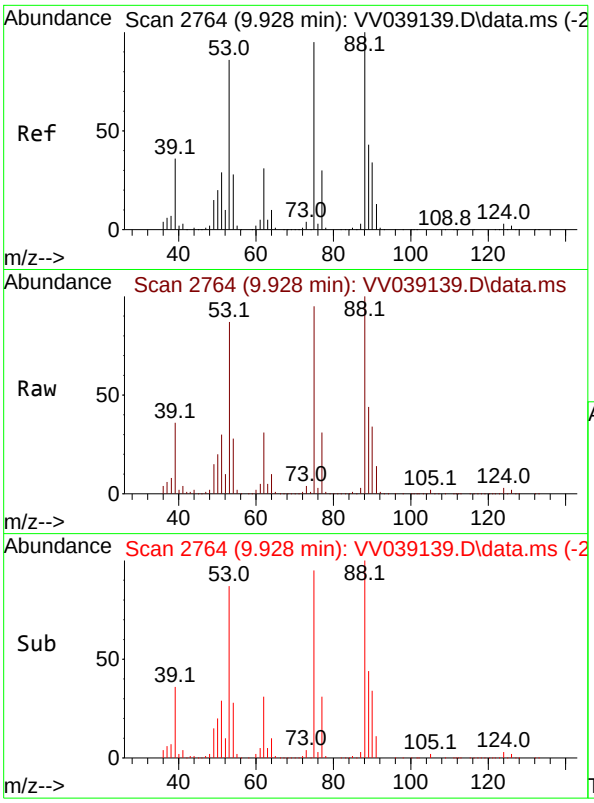


#80
1,3,5-Trimethylbenzene
Concen: 56.188 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:105 Resp: 1748435

Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.3	72.8



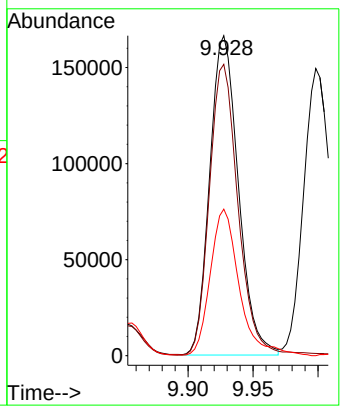


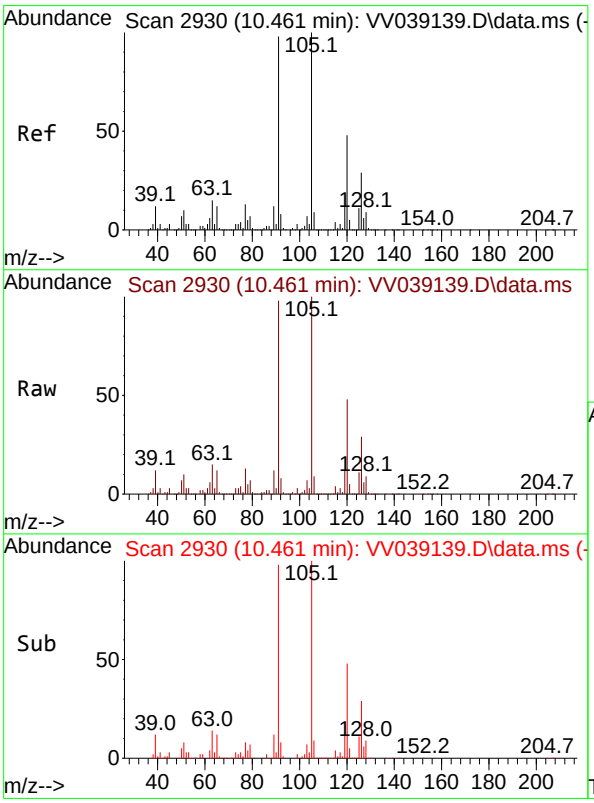
#81
trans-1,4-Dichloro-2-butene
Concen: 52.143 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 255259

Ion	Ratio	Lower	Upper
75	100		
53	90.6	72.5	108.7
89	46.5	37.2	55.8

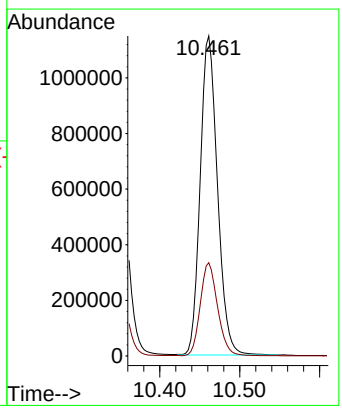


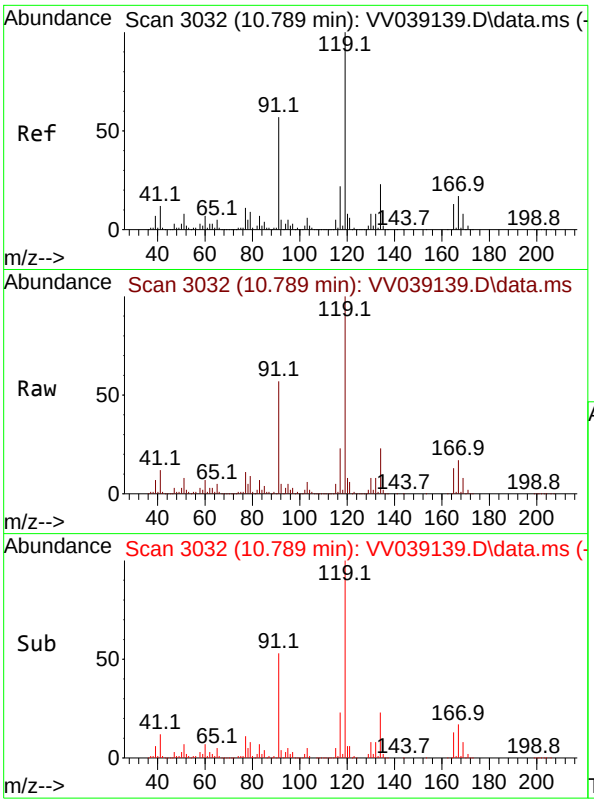


#82
4-Chlorotoluene
Concen: 54.466 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 1722899

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.6



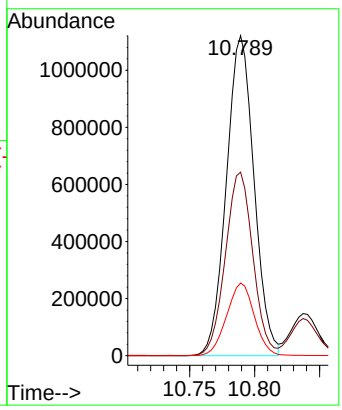


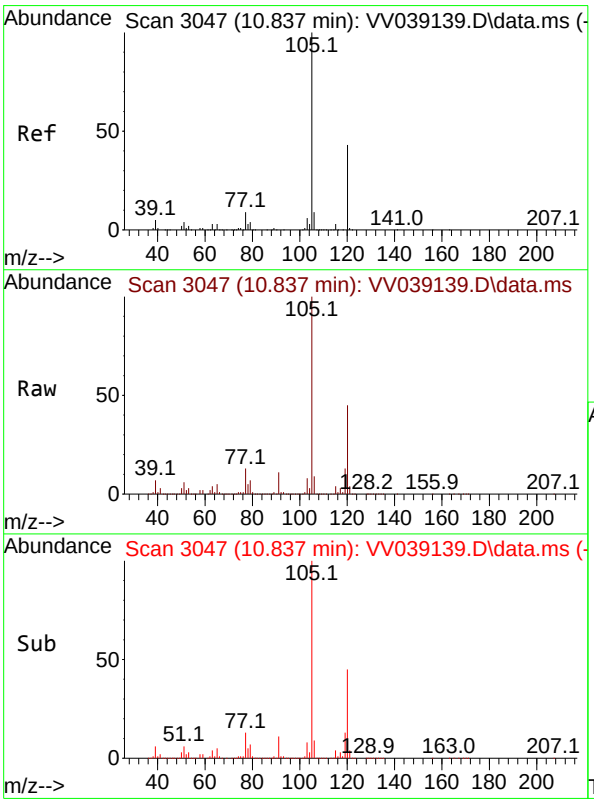
#83
tert-Butylbenzene
Concen: 53.602 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 1663245

Ion	Ratio	Lower	Upper
119	100		
91	57.1	28.5	85.6
134	22.9	11.5	34.4

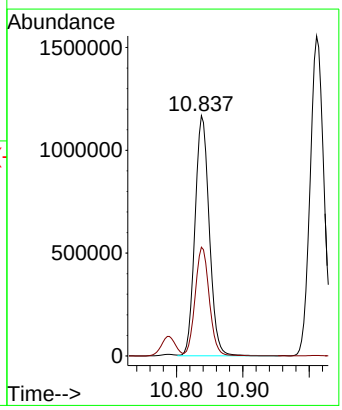


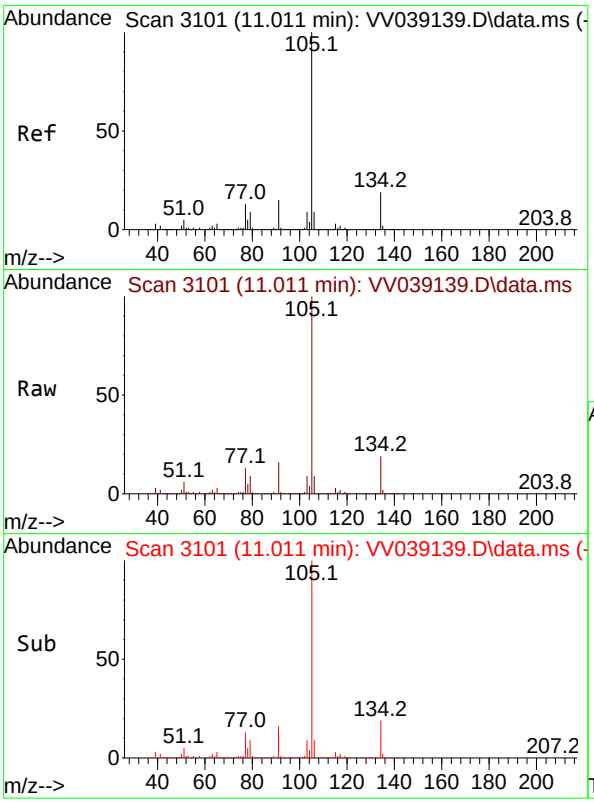


#84
1,2,4-Trimethylbenzene
Concen: 57.709 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:105 Resp: 1743425

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.4	67.2



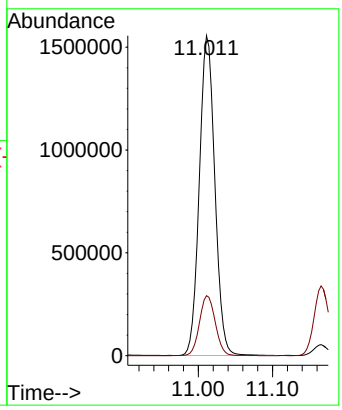


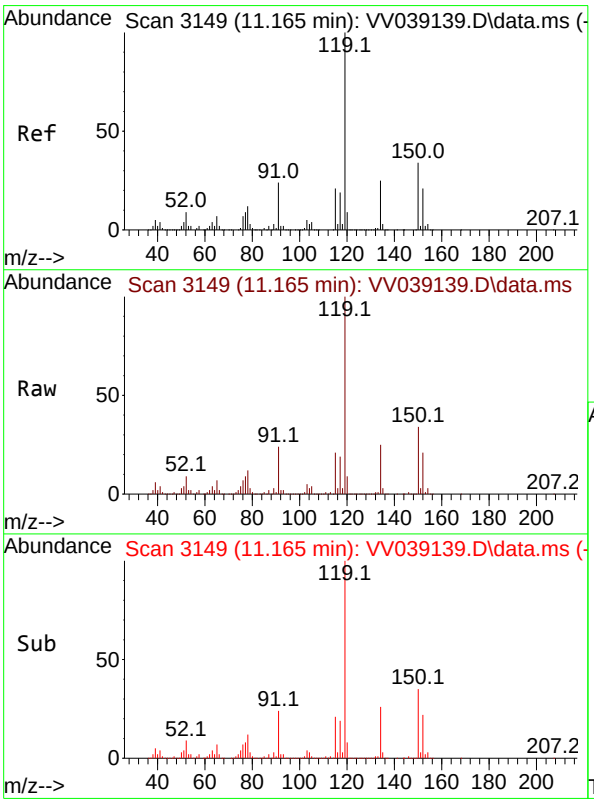
#85
sec-Butylbenzene
Concen: 54.737 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 2252781

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.6	28.8

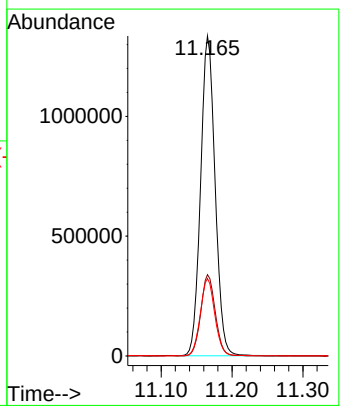


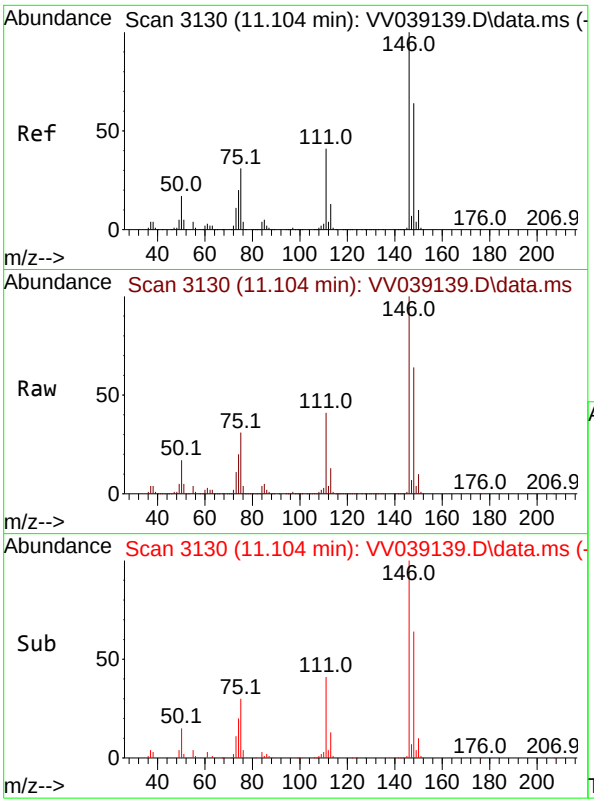


#86
p-Isopropyltoluene
Concen: 55.479 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:119 Resp: 1900412

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	24.1	12.0	36.1



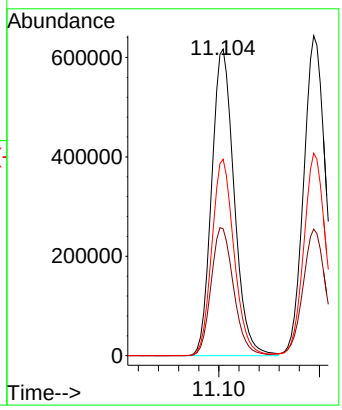


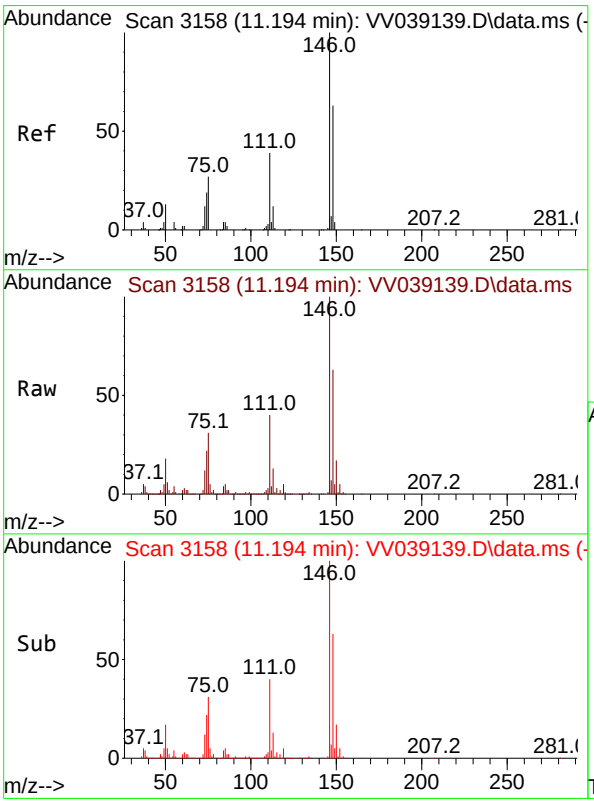
#87
1,3-Dichlorobenzene
Concen: 48.769 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 958701

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.9	62.8
148	63.5	31.8	95.3

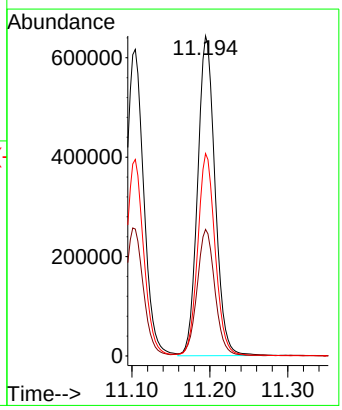


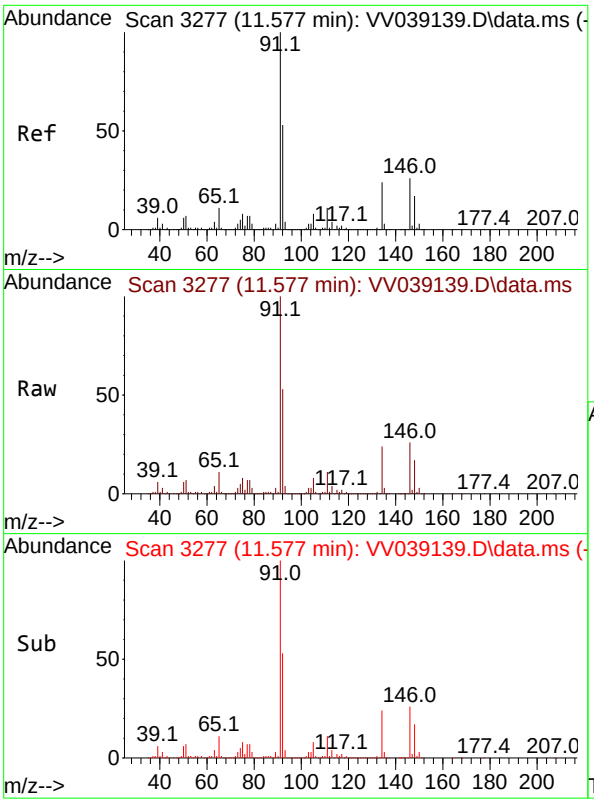


#88
1,4-Dichlorobenzene
Concen: 45.957 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:146 Resp: 998426

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	62.8	31.4	94.2



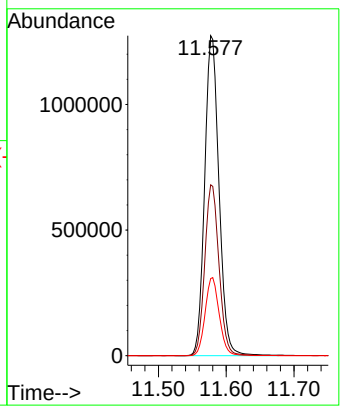


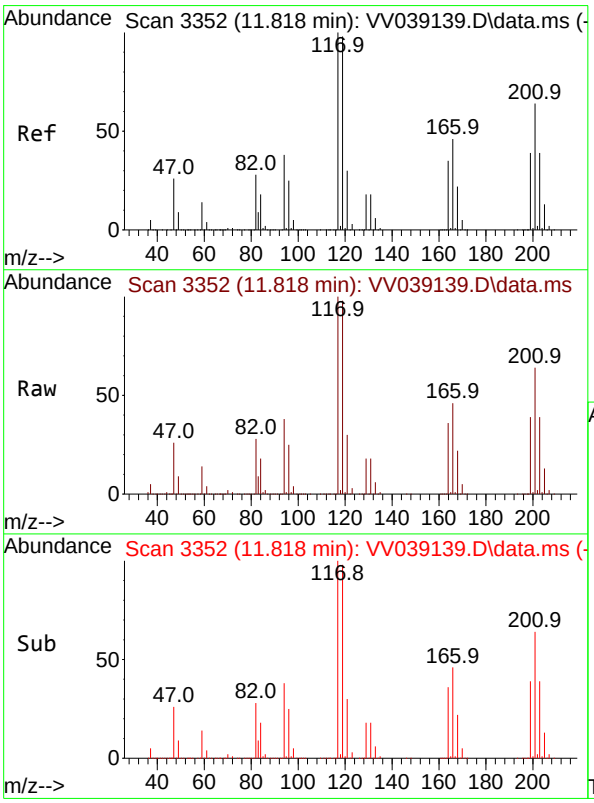
#89
n-Butylbenzene
Concen: 57.003 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1864844

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.6	79.8
134	24.2	12.1	36.3

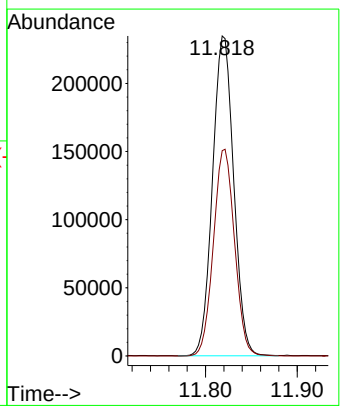


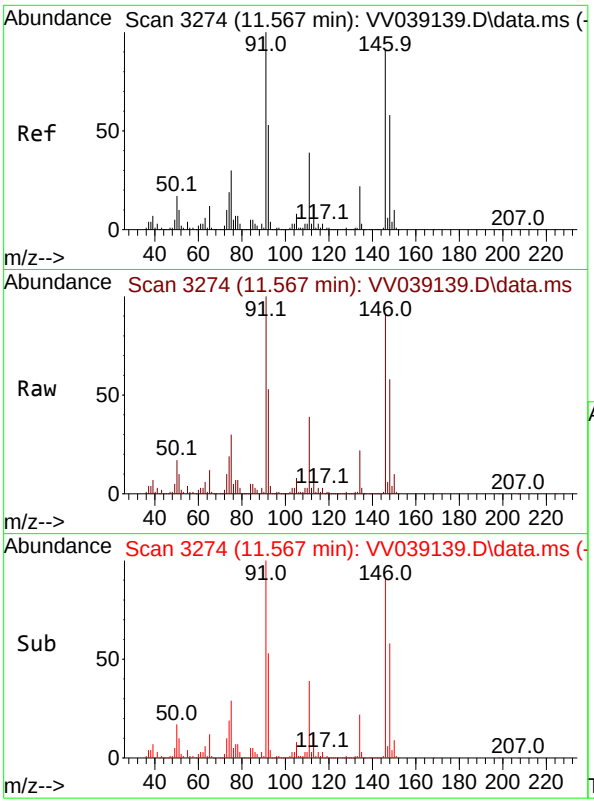


#90
Hexachloroethane
Concen: 44.553 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:117 Resp: 375818

Ion	Ratio	Lower	Upper
117	100		
201	64.5	32.3	96.8



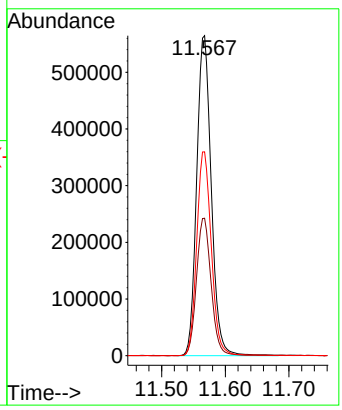


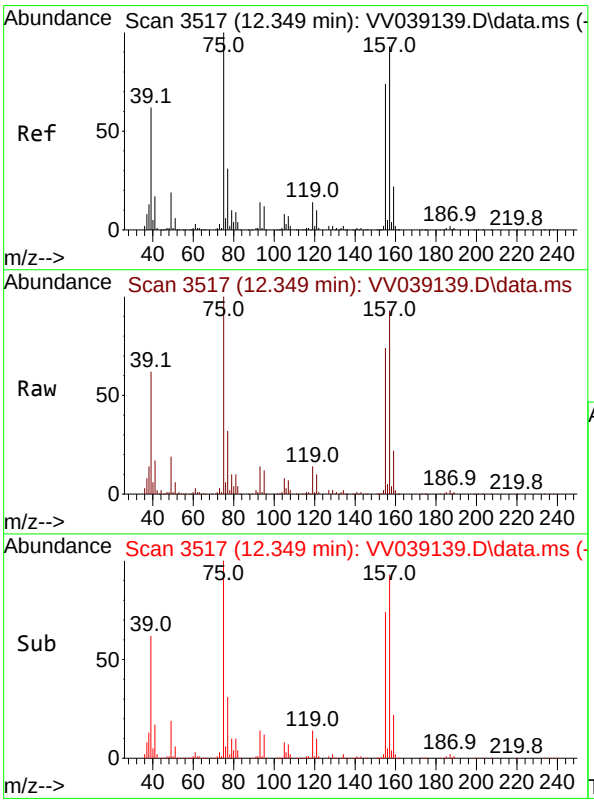
#91
1,2-Dichlorobenzene
Concen: 48.848 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 897135

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	63.8	31.9	95.7

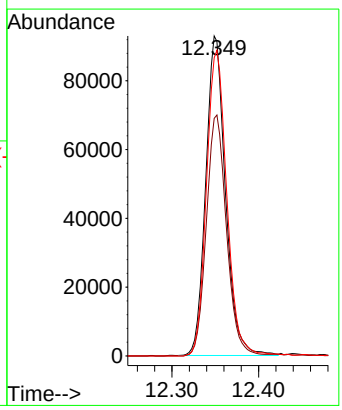


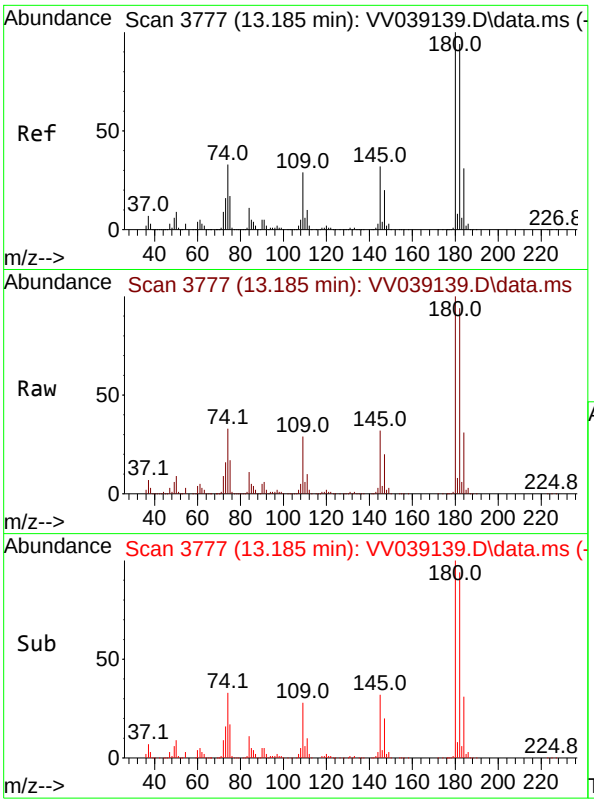


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.928 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 147329

Ion	Ratio	Lower	Upper
75	100		
155	77.2	38.6	115.8
157	98.9	49.5	148.3



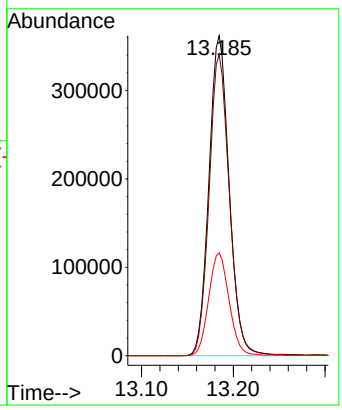


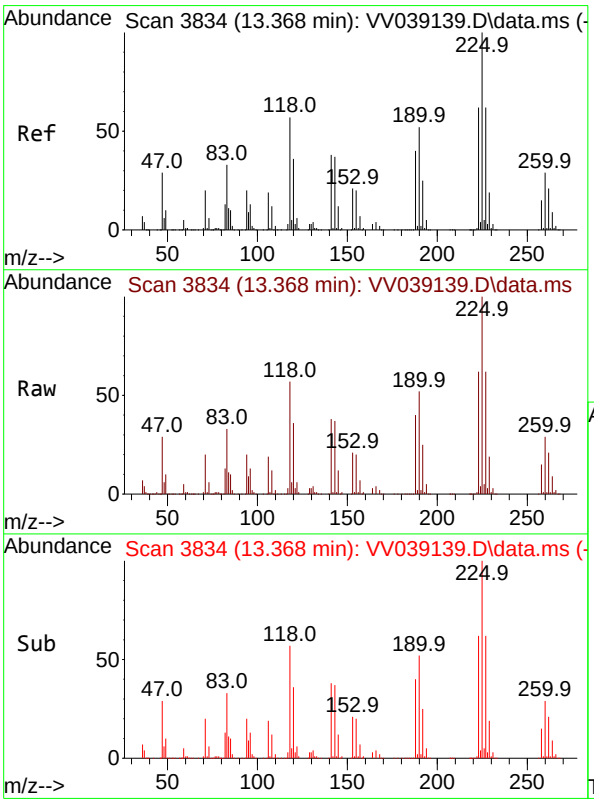
#93
1,2,4-Trichlorobenzene
Concen: 52.747 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 555323

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.4
145	32.5	16.3	48.8

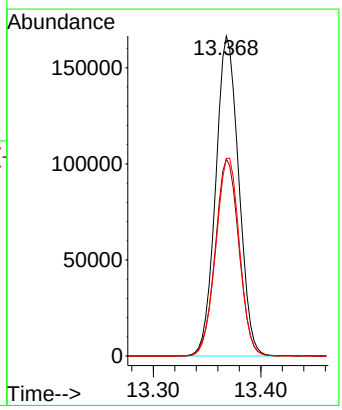


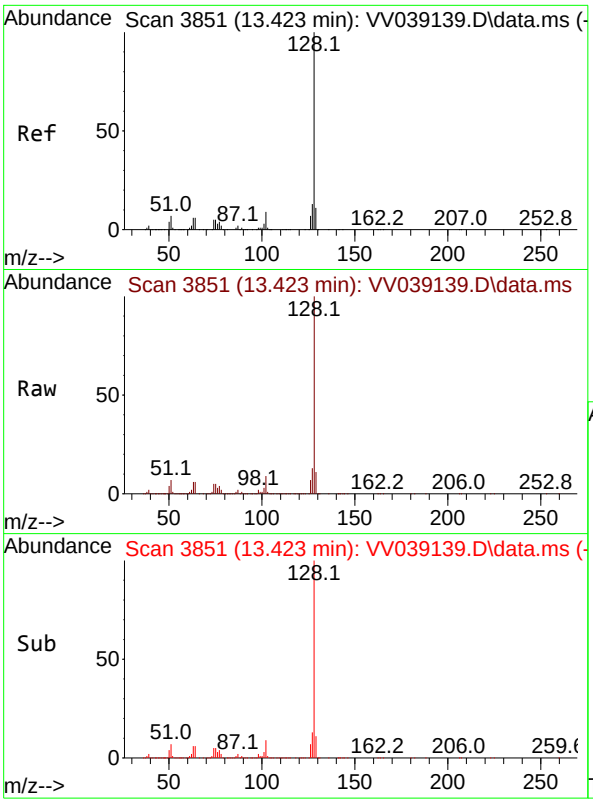


#94
Hexachlorobutadiene
Concen: 45.279 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:225 Resp: 247695

Ion	Ratio	Lower	Upper
225	100		
223	63.1	31.6	94.7
227	63.6	31.8	95.4



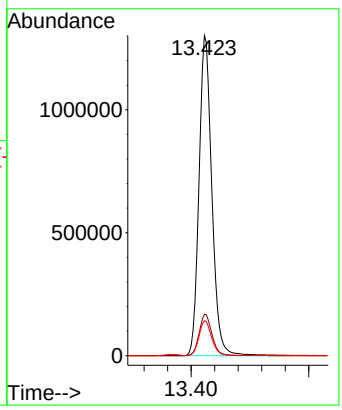


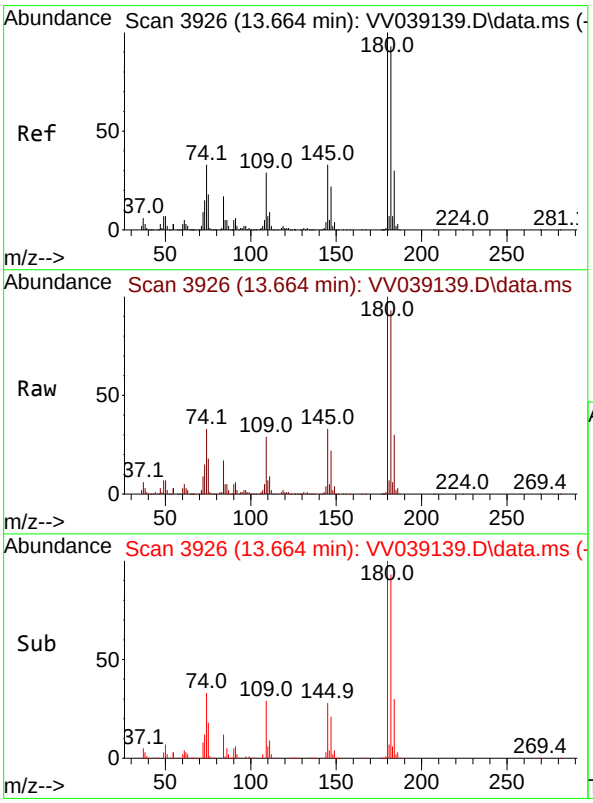
#95
Naphthalene
Concen: 58.135 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 1968567

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.8	8.6	13.0

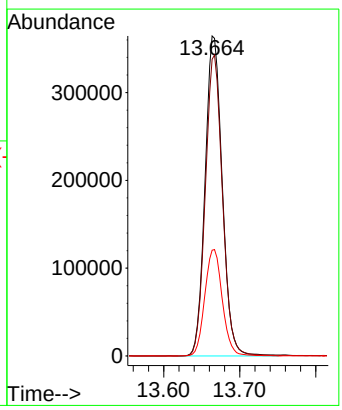




#96
1,2,3-Trichlorobenzene
Concen: 53.081 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:180 Resp: 571563

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.9	140.8
145	34.0	17.0	51.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	587274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	935392	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	904902	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	523452	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	725543	85.362	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 170.720%#			
35) Dibromofluoromethane	4.500	113	674408	89.684	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 179.360%#			
50) Toluene-d8	7.236	98	2052477	92.932	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 185.860%#			
62) 4-Bromofluorobenzene	9.998	95	937505	103.112	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 206.220%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	820676	88.278	ug/l	99
3) Chloromethane	1.230	50	856347	85.806	ug/l	98
4) Vinyl Chloride	1.298	62	940694	88.044	ug/l	99
5) Bromomethane	1.487	94	615924	91.446	ug/l	99
6) Chloroethane	1.555	64	587651	100.067	ug/l	99
7) Trichlorofluoromethane	1.722	101	1351410	87.363	ug/l	99
8) Diethyl Ether	1.918	74	511033	88.990	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.079	101	806216	87.593	ug/l	98
10) Methyl Iodide	2.195	142	931666	106.294	ug/l	100
11) Tert butyl alcohol	2.574	59	798702	444.608	ug/l	99
12) 1,1-Dichloroethene	2.079	96	778436	87.914	ug/l	98
13) Acrolein	2.008	56	160749	515.691	ug/l	99
14) Allyl chloride	2.355	41	1418889	89.708	ug/l	99
15) Acrylonitrile	2.674	53	2509475	435.771	ug/l	100
16) Acetone	2.118	43	2432444	499.795	ug/l	100
17) Carbon Disulfide	2.253	76	2332239	86.125	ug/l	99
18) Methyl Acetate	2.378	43	1142900	90.753	ug/l	100
19) Methyl tert-butyl Ether	2.712	73	2586428	91.667	ug/l	99
20) Methylene Chloride	2.455	84	870955	100.038	ug/l	99
21) trans-1,2-Dichloroethene	2.699	96	817275	86.701	ug/l	98
22) Diisopropyl ether	3.217	45	2857568	94.428	ug/l	94
23) Vinyl Acetate	3.188	43	12498986	472.148	ug/l	99
24) 1,1-Dichloroethane	3.117	63	1560774	84.338	ug/l	99
25) 2-Butanone	3.863	43	3404031	508.801	ug/l	99
26) 2,2-Dichloropropane	3.812	77	1414724	86.559	ug/l	100
27) cis-1,2-Dichloroethene	3.818	96	1010617	97.210	ug/l	99
28) Bromochloromethane	4.146	49	748549	91.624	ug/l	98
29) Tetrahydrofuran	4.233	42	2198745	516.116	ug/l	99
30) Chloroform	4.278	83	1682895	87.087	ug/l	98
31) Cyclohexane	4.580	56	1473260	97.182	ug/l	97
32) 1,1,1-Trichloroethane	4.513	97	1483938	88.700	ug/l	99
36) 1,1-Dichloropropene	4.741	75	1144520	99.944	ug/l	100
37) Ethyl Acetate	3.973	43	1328655	94.580	ug/l	98
38) Carbon Tetrachloride	4.735	117	1263028	91.566	ug/l	100
39) Methylcyclohexane	6.047	83	1603169	116.766	ug/l	98
40) Benzene	5.008	78	3611886	97.560	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.156	41	639301	100.494	ug/l	99
42) 1,2-Dichloroethane	5.037	62	1202991	92.737	ug/l	100
43) Isopropyl Acetate	5.191	43	2058622	106.372	ug/l	100
44) Trichloroethene	5.828	130	849813	99.474	ug/l	97
45) 1,2-Dichloropropane	6.088	63	909288	98.813	ug/l	95
46) Dibromomethane	6.220	93	661336	93.898	ug/l	98
47) Bromodichloromethane	6.426	83	1355845	93.118	ug/l	99
48) Methyl methacrylate	6.294	41	984431	111.182	ug/l	99
49) 1,4-Dioxane	6.288	88	304943	2191.331	ug/l	95
51) 4-Methyl-2-Pentanone	7.149	43	6674594	539.372	ug/l	99
52) Toluene	7.307	92	2271340	105.813	ug/l	99
53) t-1,3-Dichloropropene	7.571	75	1408125	110.970	ug/l	97
54) cis-1,3-Dichloropropene	6.947	75	1501380	107.178	ug/l	100
55) 1,1,2-Trichloroethane	7.757	97	897804	93.280	ug/l	99
56) Ethyl methacrylate	7.712	69	1424432	124.621	ug/l	99
57) 1,3-Dichloropropane	7.931	76	1501225	98.832	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.812	63	3282267	498.705	ug/l	100
59) 2-Hexanone	8.063	43	4988835	497.186	ug/l	99
60) Dibromochloromethane	8.165	129	1044126	95.206	ug/l	99
61) 1,2-Dibromoethane	8.272	107	960914	97.622	ug/l	98
64) Tetrachloroethene	7.895	164	736462	97.167	ug/l	97
65) Chlorobenzene	8.802	112	2457021	97.480	ug/l	97
66) 1,1,1,2-Tetrachloroethane	8.895	131	863523	94.816	ug/l	100
67) Ethyl Benzene	8.934	91	4376266	114.700	ug/l	100
68) m/p-Xylenes	9.059	106	3396653	230.657	ug/l	100
69) o-Xylene	9.468	106	1592963	122.170	ug/l	98
70) Styrene	9.484	104	2781887	99.832	ug/l	100
71) Bromoform	9.651	173	724467	101.838	ug/l	99
73) Isopropylbenzene	9.854	105	4288139	112.946	ug/l	100
74) N-amyl acetate	9.722	43	1846779	121.948	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.165	83	1453989	87.406	ug/l	100
76) 1,2,3-Trichloropropane	10.198	75	1070580	89.827	ug/l	95
77) Bromobenzene	10.140	156	993863	100.897	ug/l	99
78) n-propylbenzene	10.278	91	5220220	112.910	ug/l	99
79) 2-Chlorotoluene	10.345	91	3018051	109.093	ug/l	99
80) 1,3,5-Trimethylbenzene	10.464	105	3638030	115.284	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.927	75	545452	109.871	ug/l	97
82) 4-Chlorotoluene	10.461	91	3573507	111.396	ug/l	100
83) tert-Butylbenzene	10.789	119	3572813	113.541	ug/l	99
84) 1,2,4-Trimethylbenzene	10.837	105	3601355	117.550	ug/l	100
85) sec-Butylbenzene	11.011	105	4763689	114.135	ug/l	100
86) p-Isopropyltoluene	11.165	119	3948556	113.666	ug/l	99
87) 1,3-Dichlorobenzene	11.104	146	1970594	98.849	ug/l	99
88) 1,4-Dichlorobenzene	11.194	146	2008676	91.172	ug/l	99
89) n-Butylbenzene	11.577	91	3939852	118.754	ug/l	99
90) Hexachloroethane	11.818	117	776688	90.794	ug/l	99
91) 1,2-Dichlorobenzene	11.564	146	1886394	101.282	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.349	75	316446	100.015	ug/l	96
93) 1,2,4-Trichlorobenzene	13.185	180	1244510	116.564	ug/l	100
94) Hexachlorobutadiene	13.368	225	524789	94.597	ug/l	99
95) Naphthalene	13.423	128	4442612	129.371	ug/l	100
96) 1,2,3-Trichlorobenzene	13.667	180	1246406	114.143	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

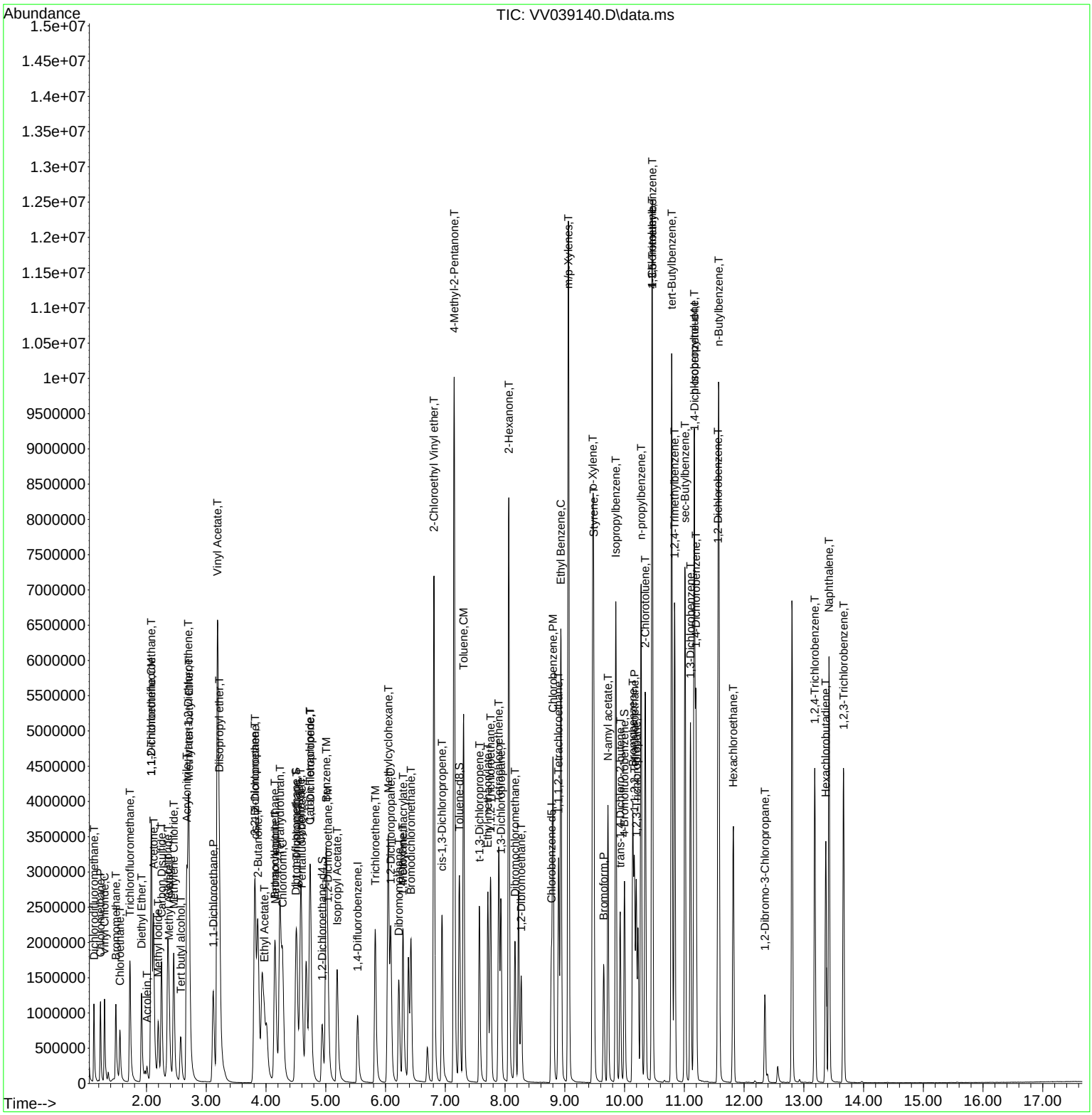
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

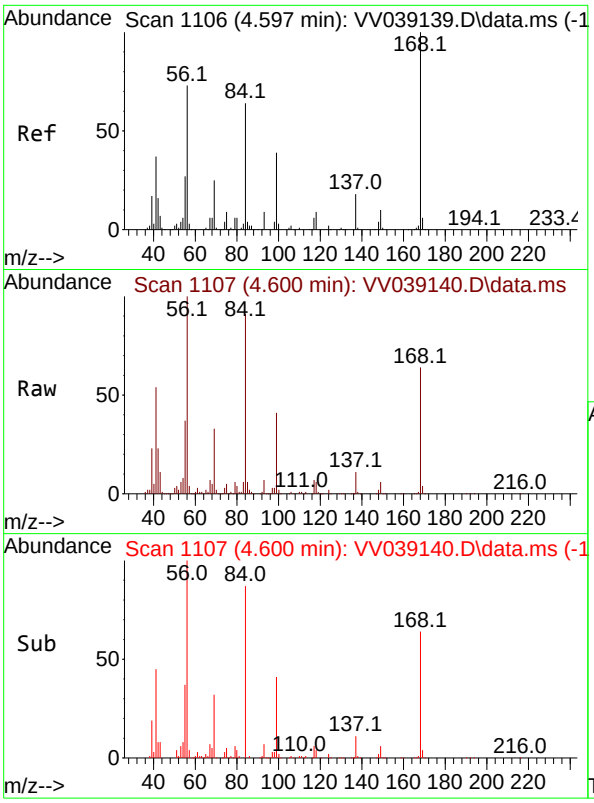
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



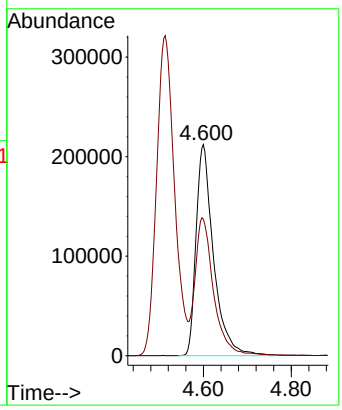


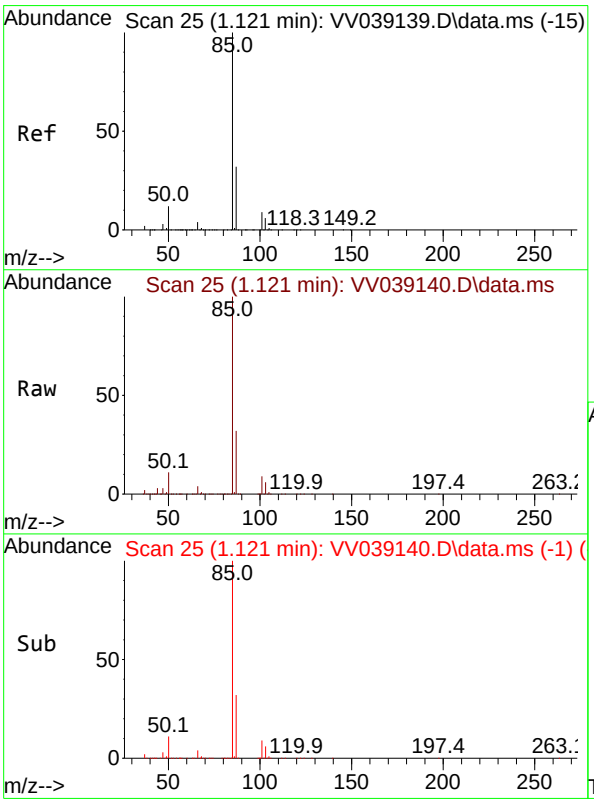
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 587274

Ion	Ratio	Lower	Upper
168	100		
99	64.4	49.6	74.4

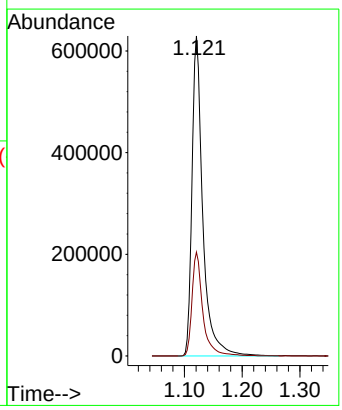


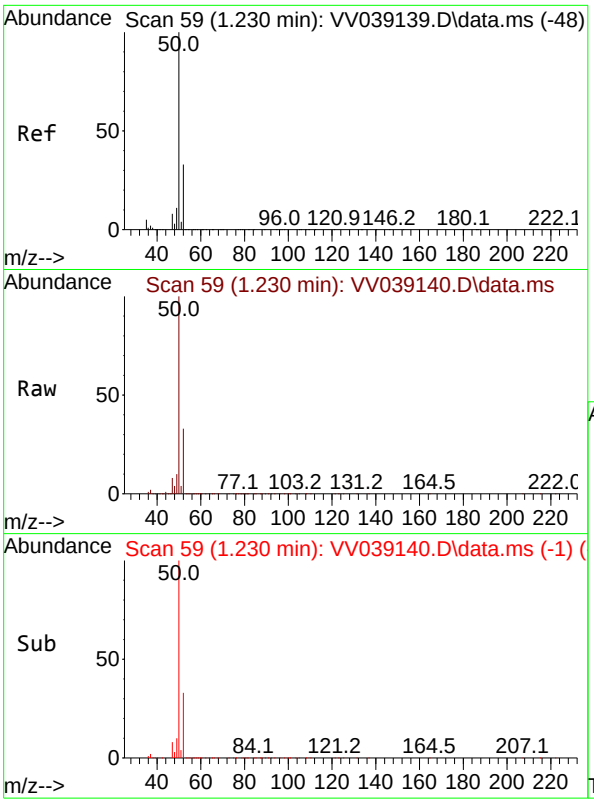


#2
Dichlorodifluoromethane
Concen: 88.278 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 85 Resp: 820676

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.0	47.9



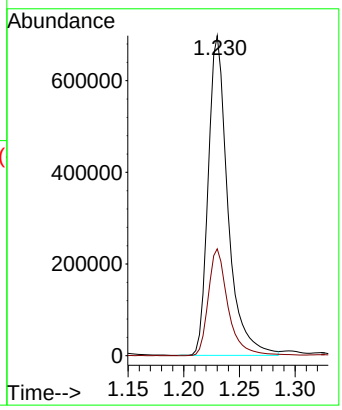


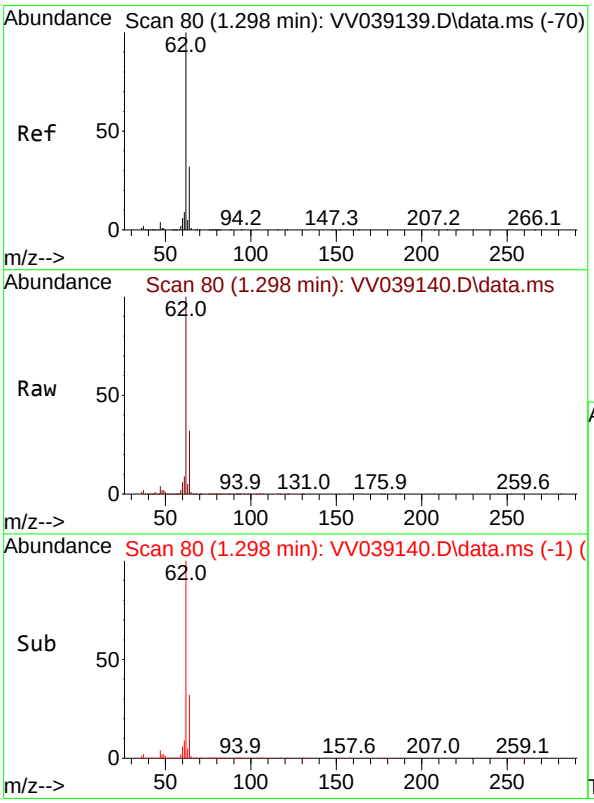
#3
Chloromethane
Concen: 85.806 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 856347

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.0	39.0

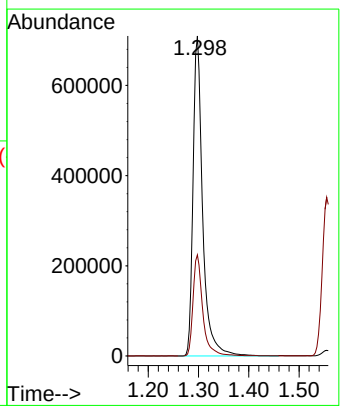


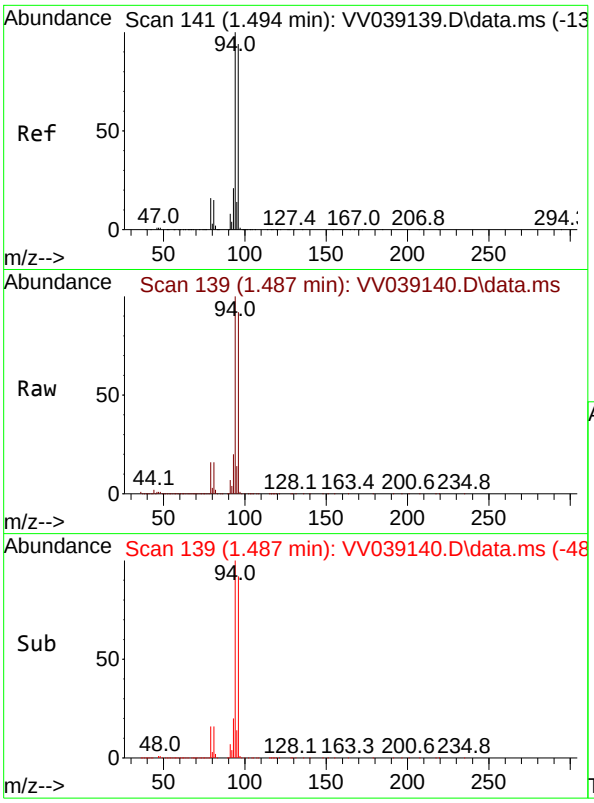


#4
Vinyl Chloride
Concen: 88.044 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 62 Resp: 940694

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.6	38.4



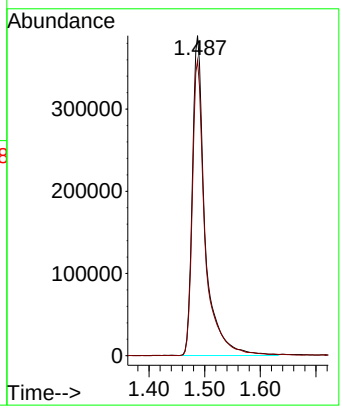


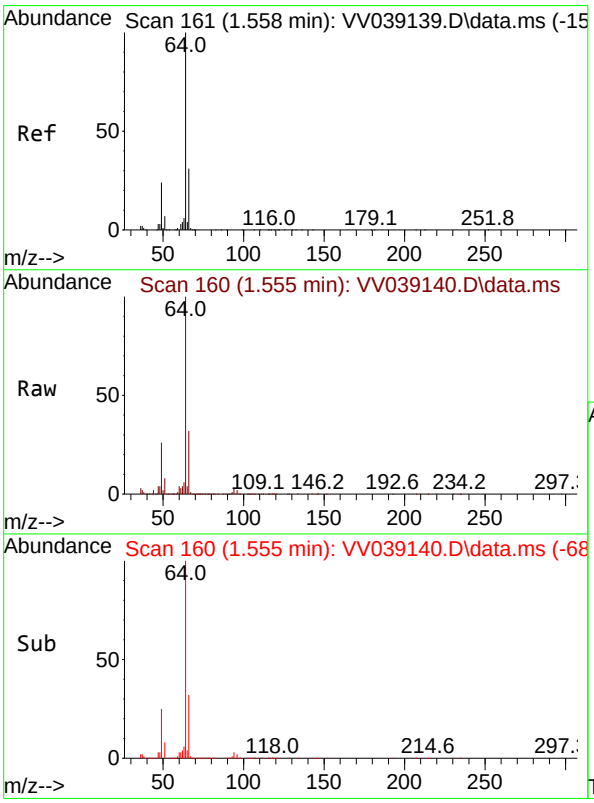
#5
Bromomethane
Concen: 91.446 ug/l
RT: 1.487 min Scan# 1
Delta R.T. -0.007 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 615924

Ion	Ratio	Lower	Upper
94	100		
96	92.3	74.9	112.3

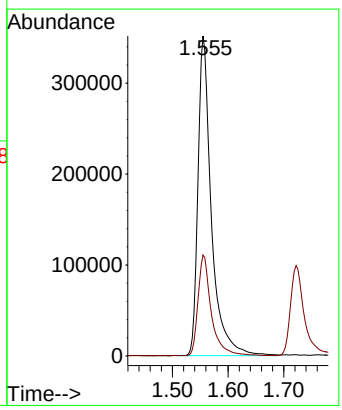


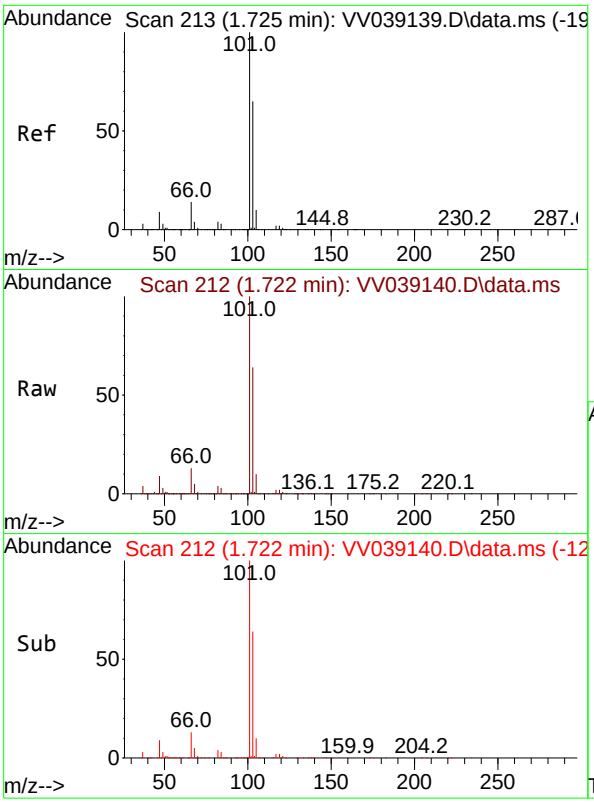


#6
Chloroethane
Concen: 100.067 ug/l
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 64 Resp: 587651

Ion	Ratio	Lower	Upper
64	100		
66	31.5	24.6	36.8



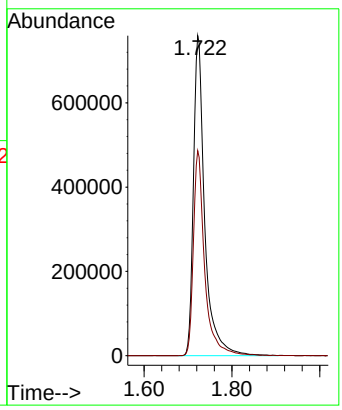


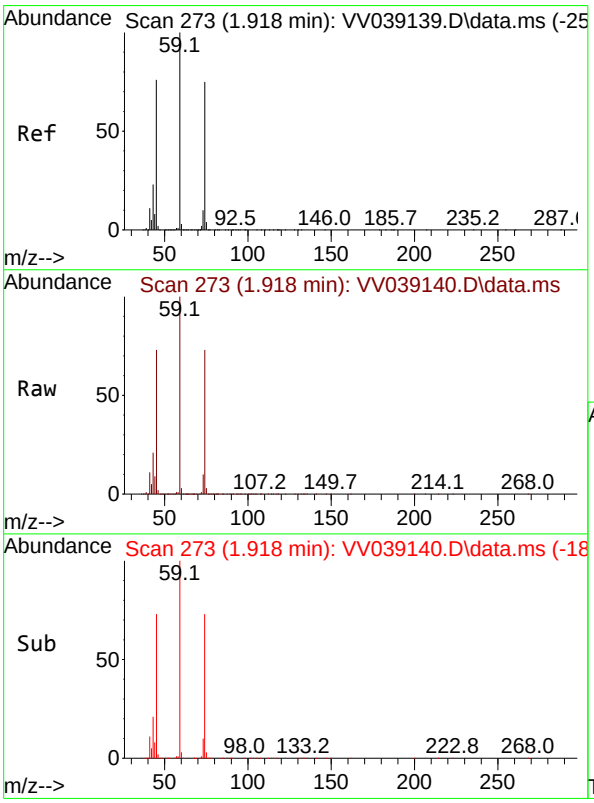
#7
Trichlorofluoromethane
Concen: 87.363 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 1351410

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.0	78.0

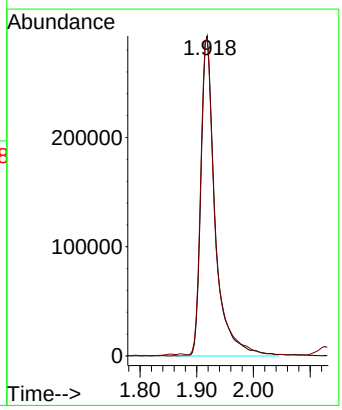


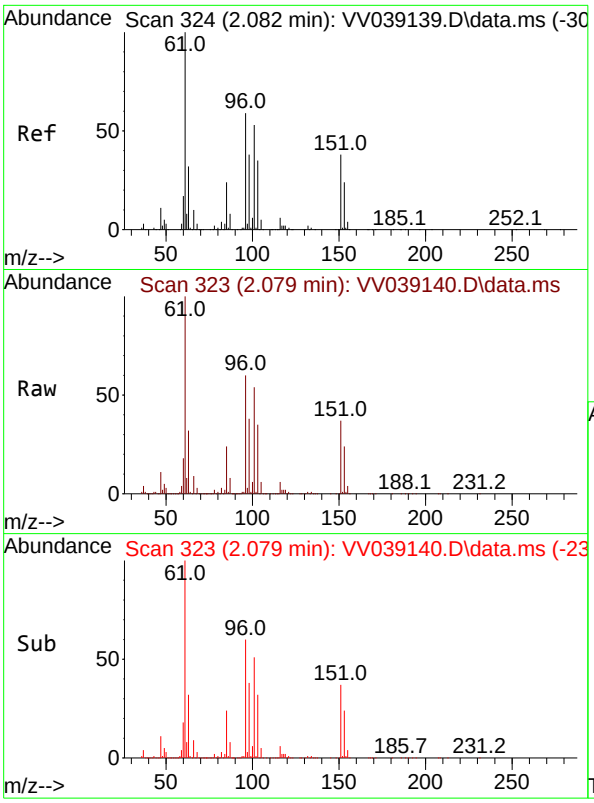


#8
Diethyl Ether
Concen: 88.990 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 74 Resp: 511033

Ion	Ratio	Lower	Upper
74	100		
45	98.8	49.6	148.8



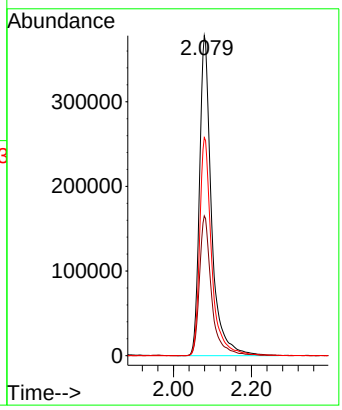


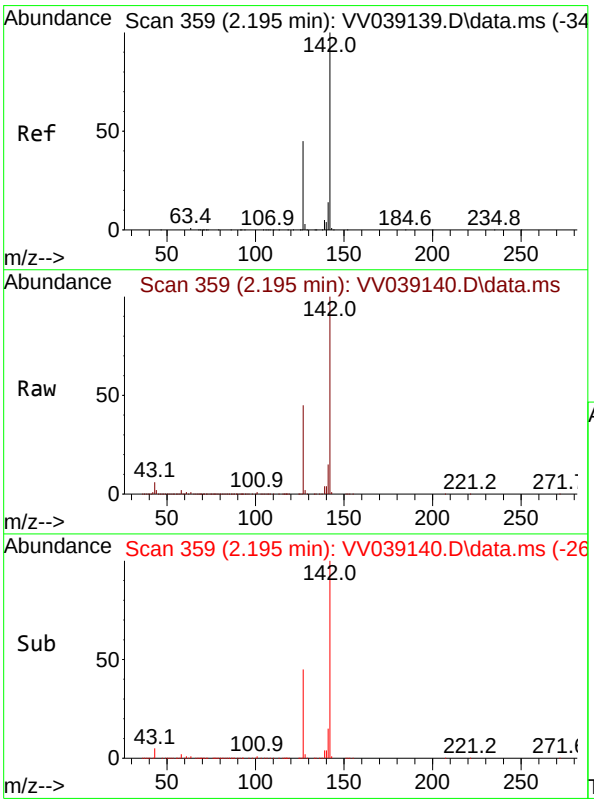
#9
1,1,2-Trichlorotrifluoroethane
Concen: 87.593 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 806216

Ion	Ratio	Lower	Upper
101	100		
85	44.0	36.2	54.2
151	68.1	56.3	84.5

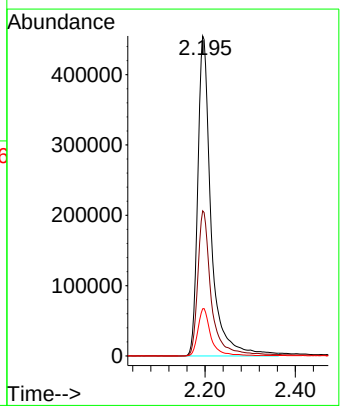


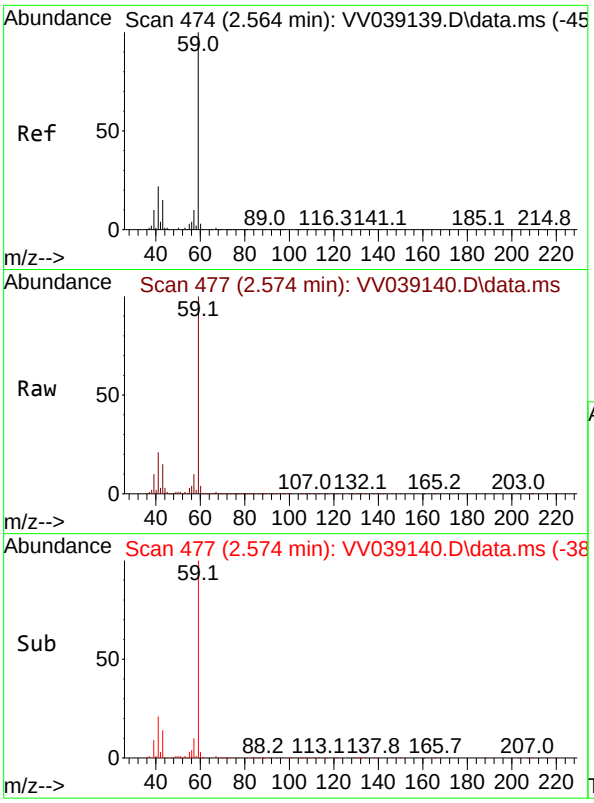


#10
Methyl Iodide
Concen: 106.294 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:142 Resp: 931666

Ion	Ratio	Lower	Upper
142	100		
127	45.2	36.3	54.5
141	14.1	11.2	16.8



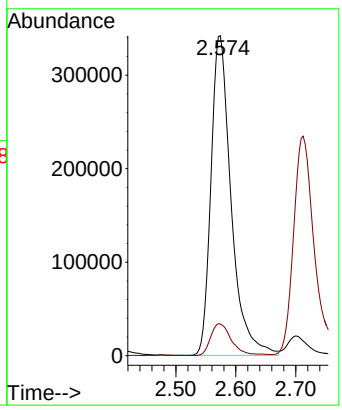


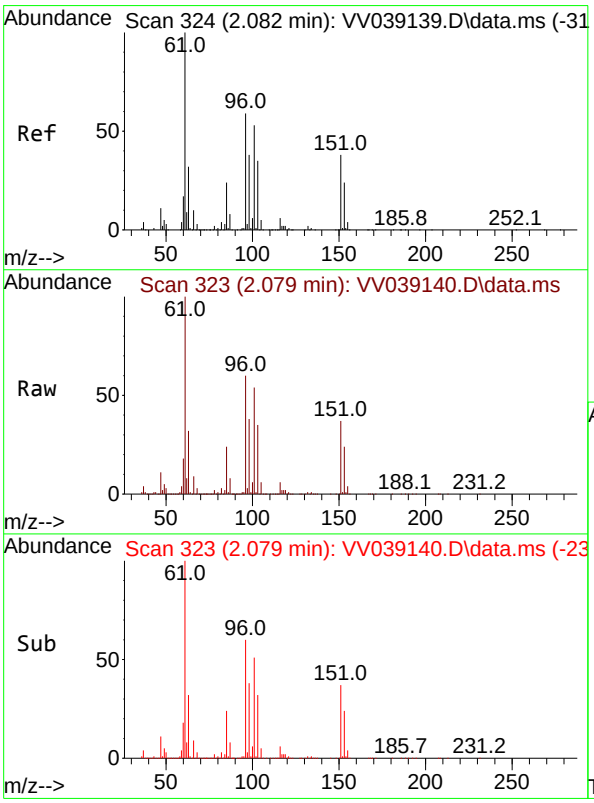
#11
Tert butyl alcohol
Concen: 444.608 ug/l
RT: 2.574 min Scan# 4
Delta R.T. 0.010 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 798702

Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.8	11.8

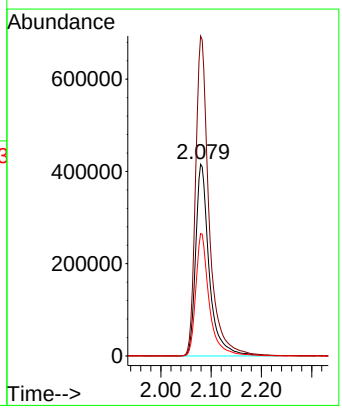


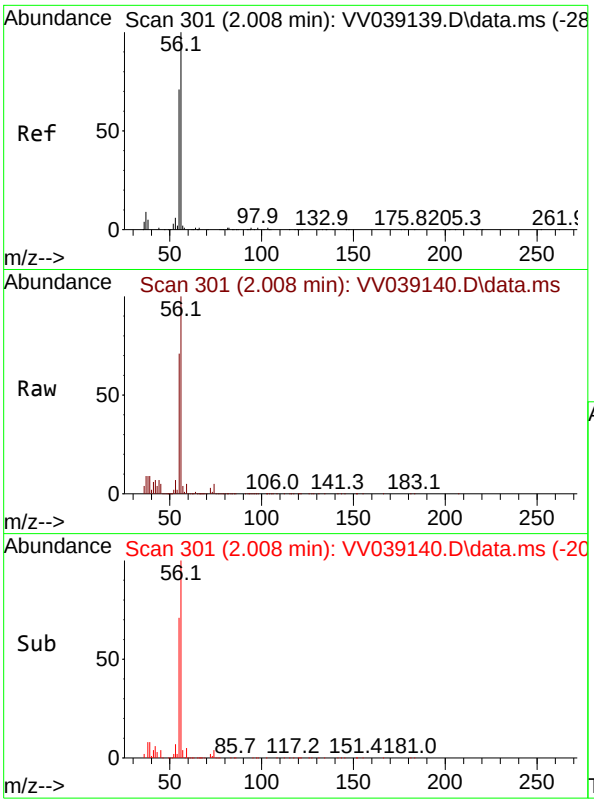


#12
1,1-Dichloroethene
Concen: 87.914 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 96 Resp: 778436

Ion	Ratio	Lower	Upper
96	100		
61	167.1	136.0	204.0
98	63.9	51.0	76.6



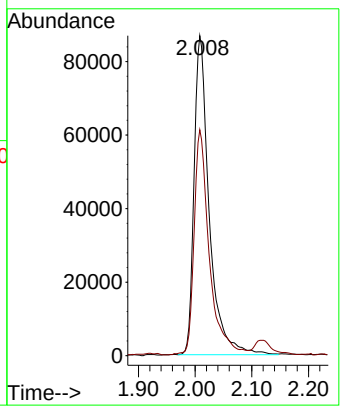


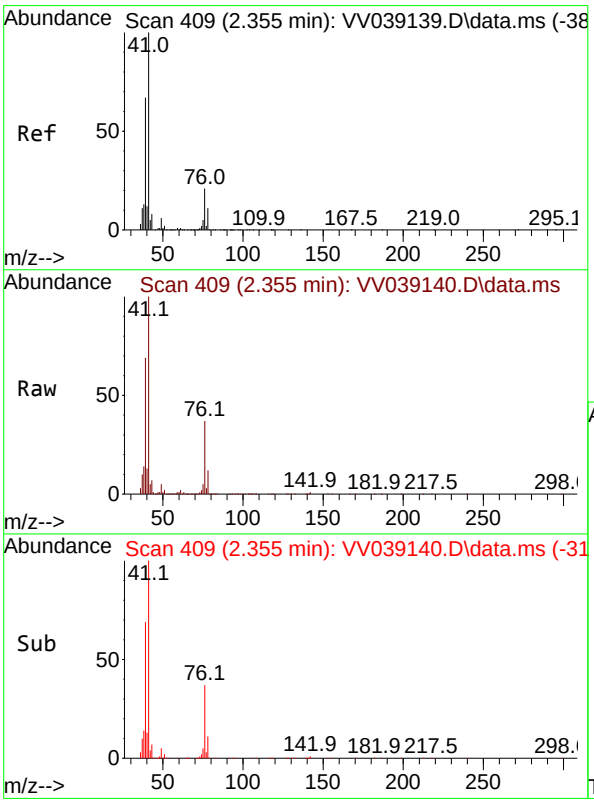
#13
Acrolein
Concen: 515.691 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 160749

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.2	84.4

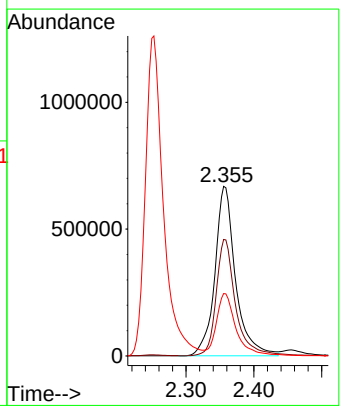


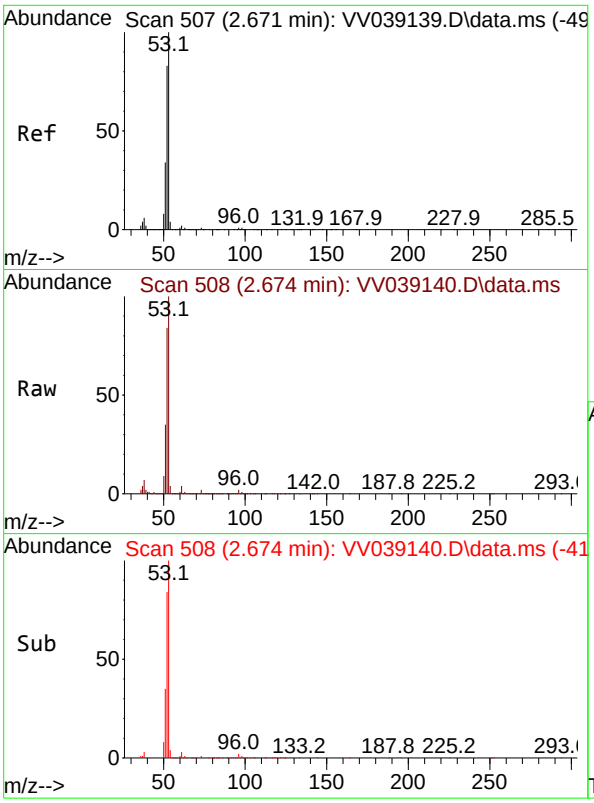


#14
Allyl chloride
Concen: 89.708 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 41 Resp: 1418889

Ion	Ratio	Lower	Upper
41	100		
39	64.7	51.0	76.6
76	35.0	28.2	42.4



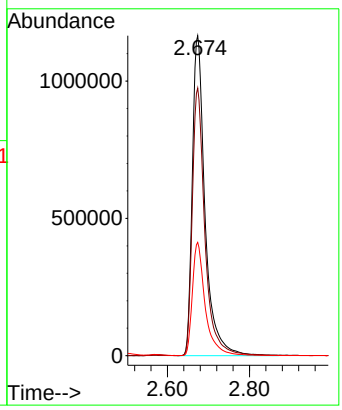


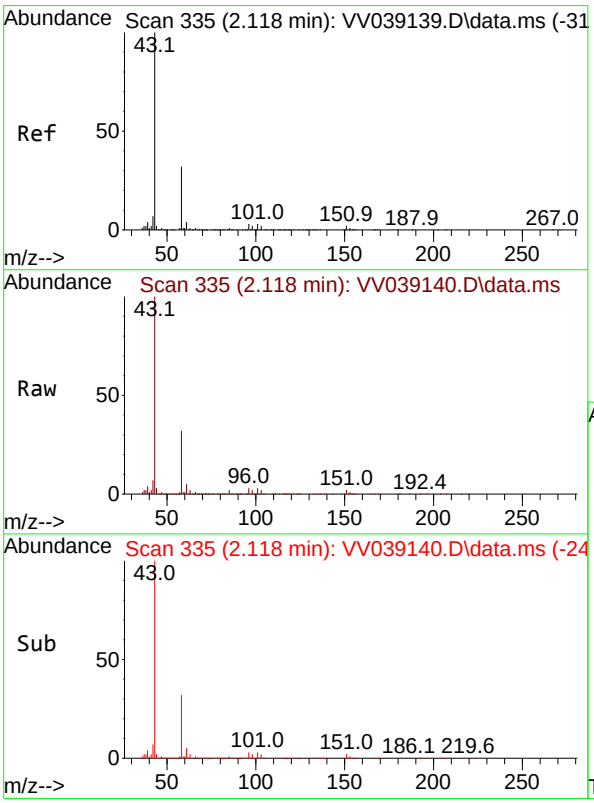
#15
Acrylonitrile
Concen: 435.771 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 2509475

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	35.6	28.5	42.7

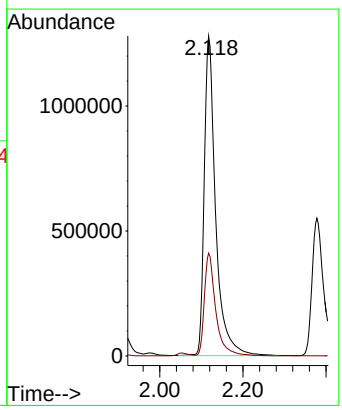


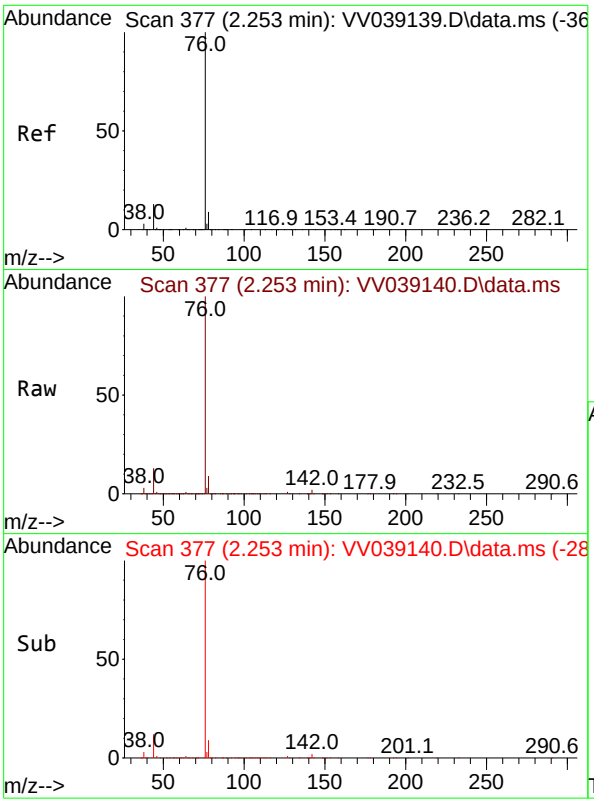


#16
Acetone
Concen: 499.795 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 2432444

Ion	Ratio	Lower	Upper
43	100		
58	32.1	25.8	38.6



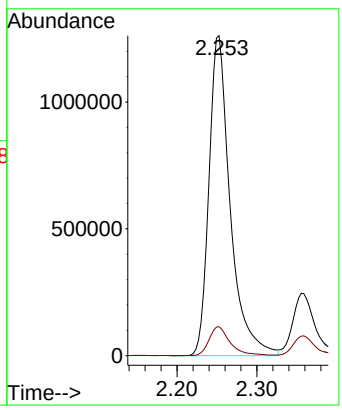


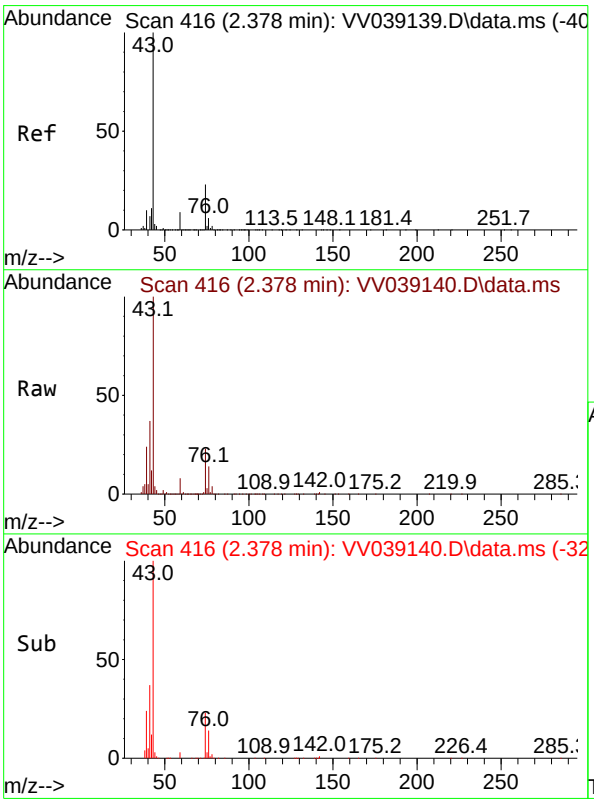
#17
Carbon Disulfide
Concen: 86.125 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 2332239

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

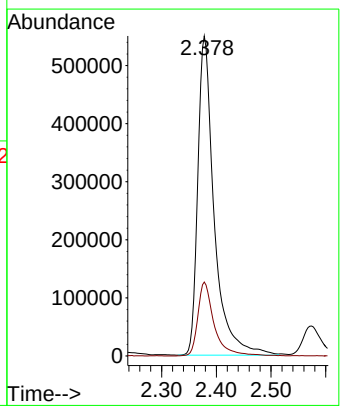


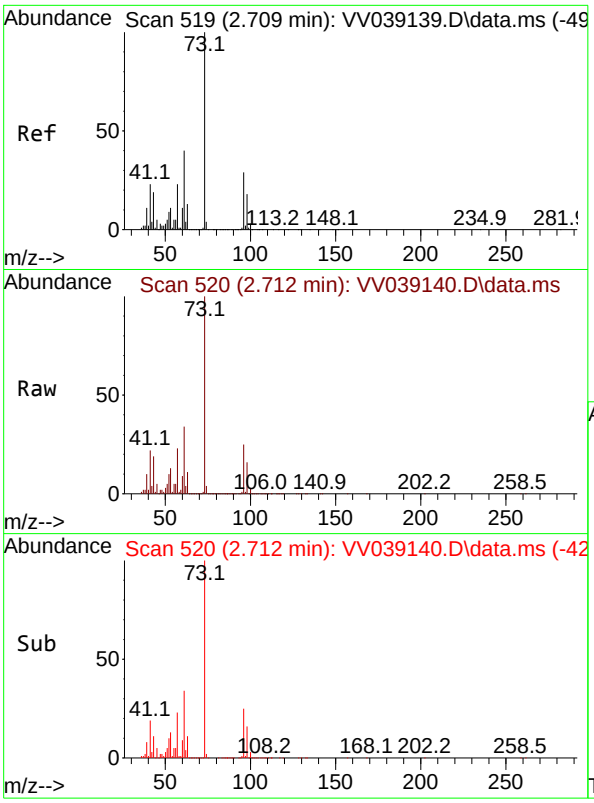


#18
Methyl Acetate
Concen: 90.753 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 1142900

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	27.8



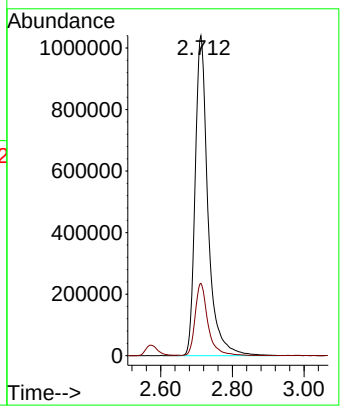


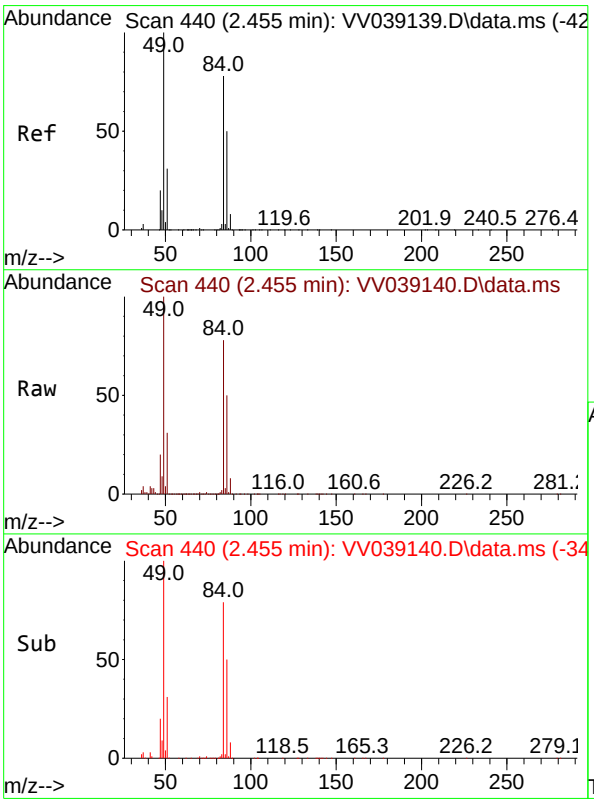
#19
Methyl tert-butyl Ether
Concen: 91.667 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 2586428

Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.2	27.4

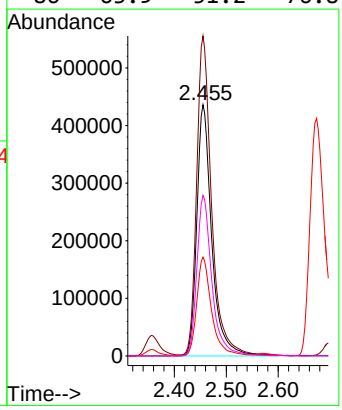


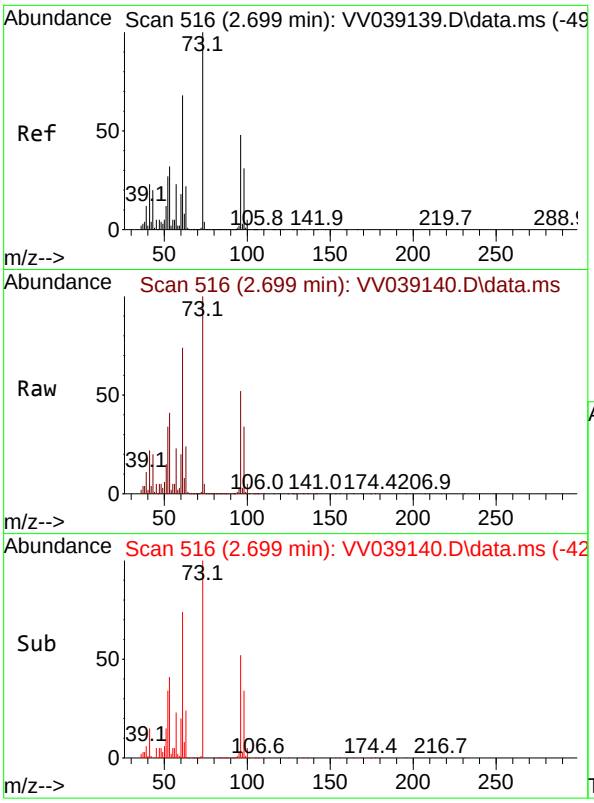


#20
Methylene Chloride
Concen: 100.038 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 84 Resp: 870955

Ion	Ratio	Lower	Upper
84	100		
49	127.1	102.8	154.2
51	39.2	31.9	47.9
86	63.9	51.2	76.8



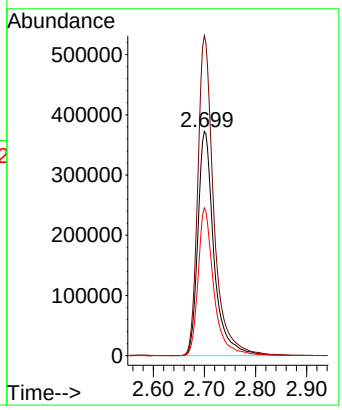


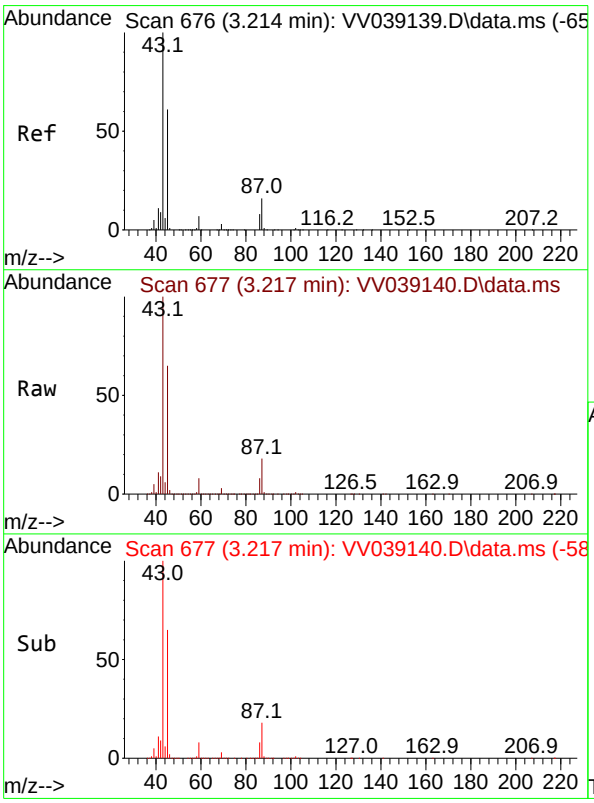
#21
trans-1,2-Dichloroethene
Concen: 86.701 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 817275

Ion	Ratio	Lower	Upper
96	100		
61	142.7	112.8	169.2
98	65.9	51.1	76.7

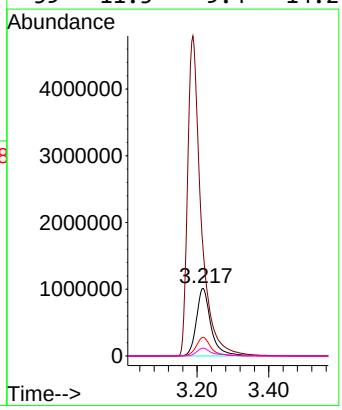


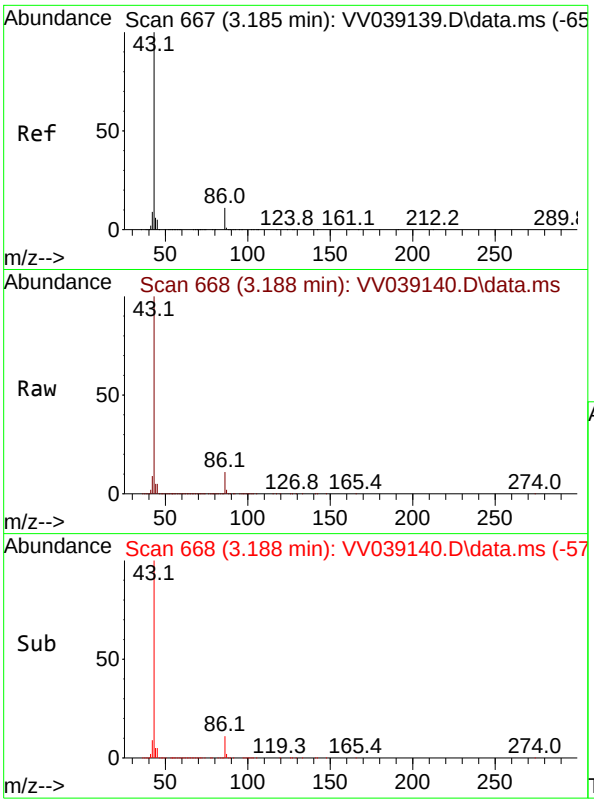


#22
Diisopropyl ether
Concen: 94.428 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 45 Resp: 2857568

Ion	Ratio	Lower	Upper
45	100		
43	153.6	130.9	196.3
87	27.6	21.1	31.7
59	11.5	9.4	14.2



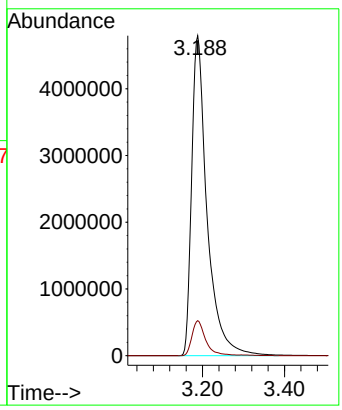


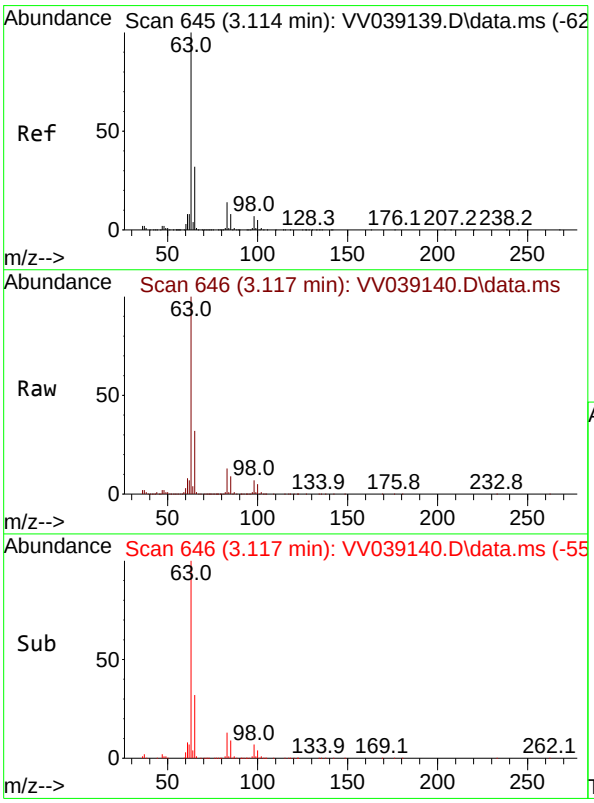
#23
Vinyl Acetate
Concen: 472.148 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp:12498986

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.4	12.6

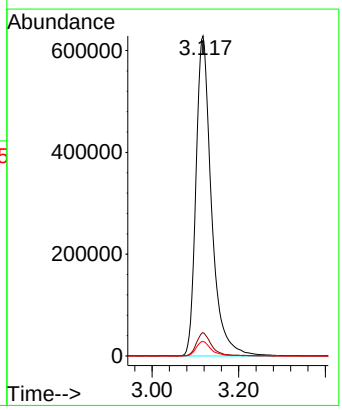


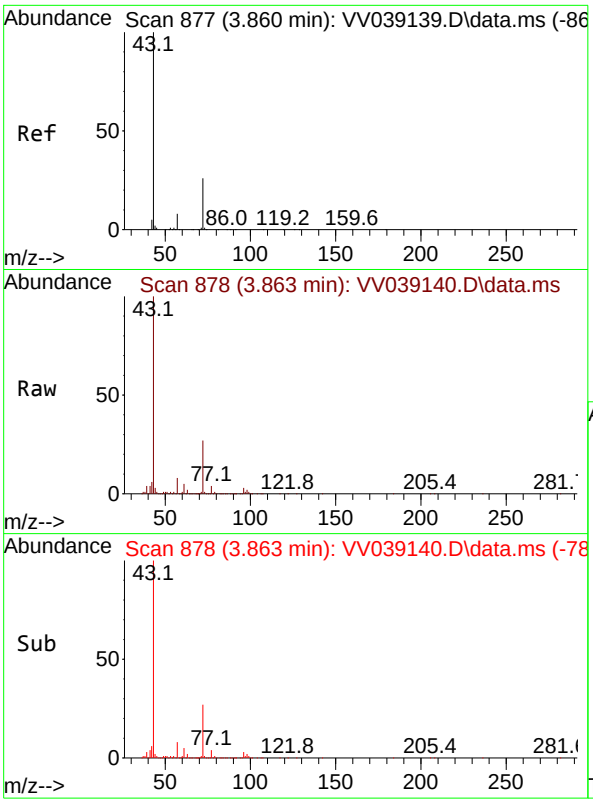


#24
1,1-Dichloroethane
Concen: 84.338 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 63 Resp: 1560774

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.4	10.2
100	4.5	2.2	6.6



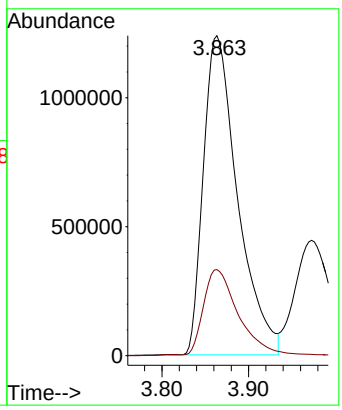


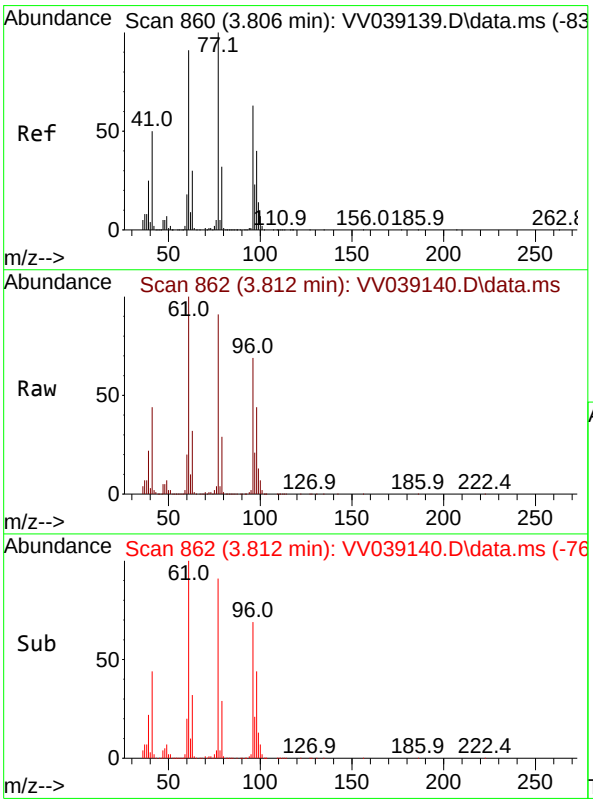
#25
2-Butanone
Concen: 508.801 ug/l
RT: 3.863 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 3404031

Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.0	31.6

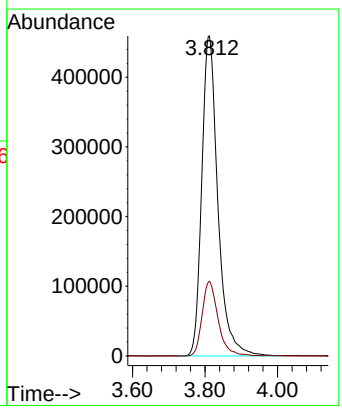


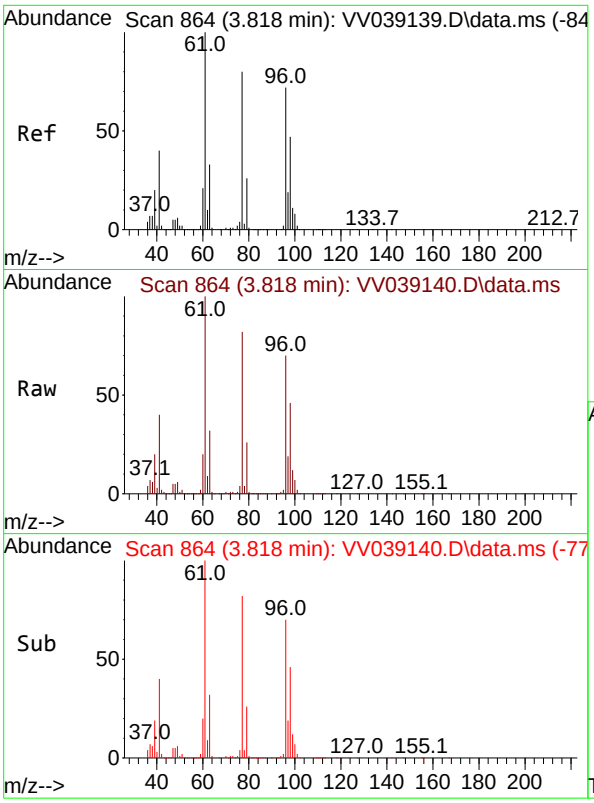


#26
2,2-Dichloropropane
Concen: 86.559 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 77 Resp: 1414724

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.7



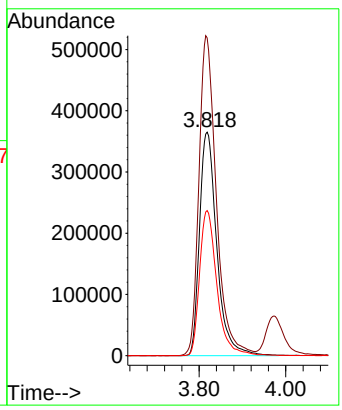


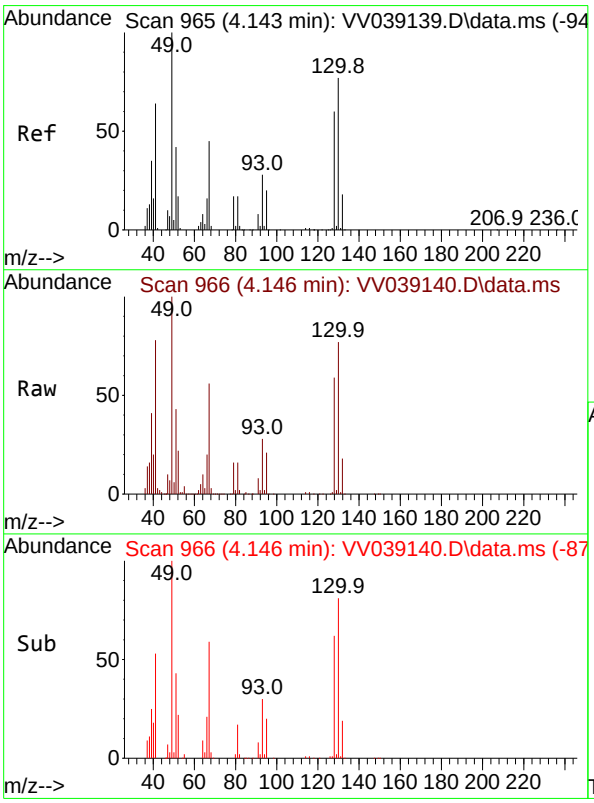
#27
cis-1,2-Dichloroethene
Concen: 97.210 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 1010617

Ion	Ratio	Lower	Upper
96	100		
61	144.0	0.0	286.4
98	64.9	0.0	126.6

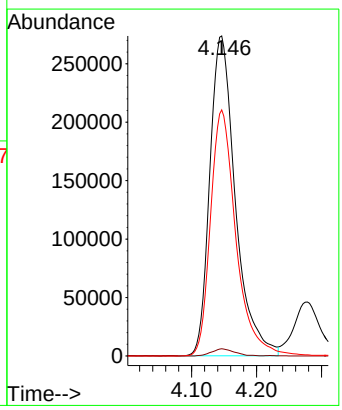


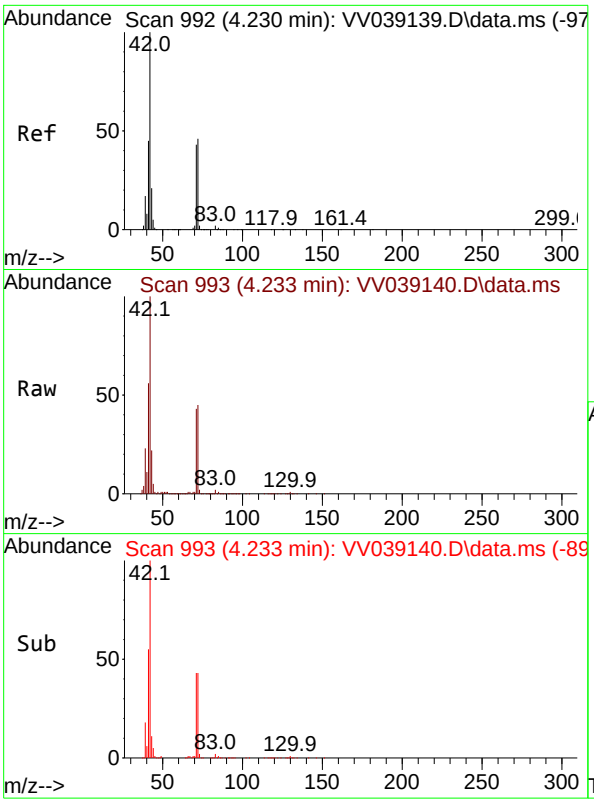


#28
Bromochloromethane
Concen: 91.624 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 49 Resp: 748549

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	76.8	60.2	90.2



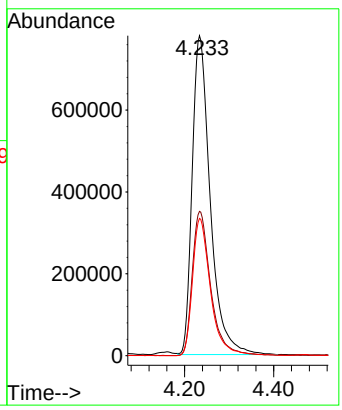


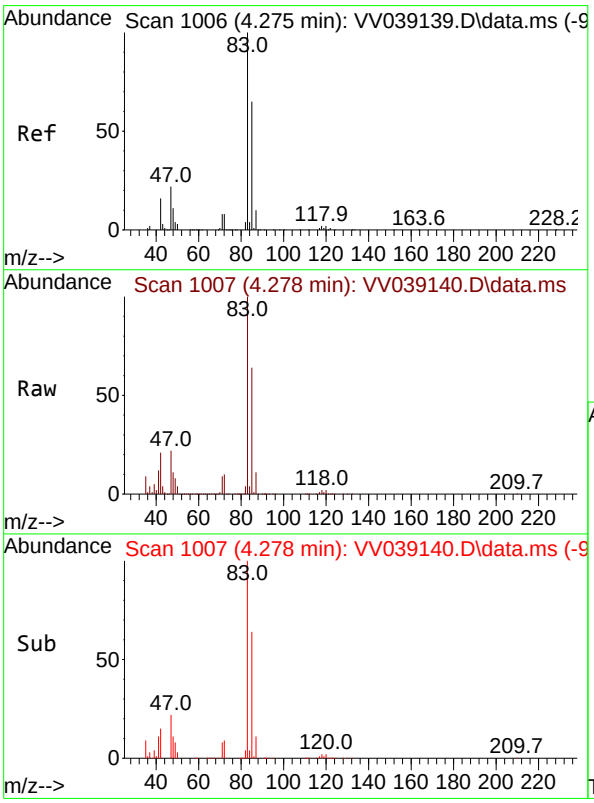
#29
Tetrahydrofuran
Concen: 516.116 ug/l
RT: 4.233 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 2198745

Ion	Ratio	Lower	Upper
42	100		
72	46.2	36.3	54.5
71	43.0	34.3	51.5

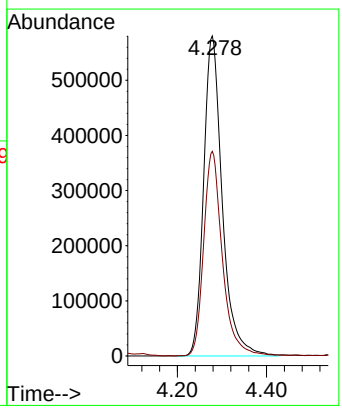


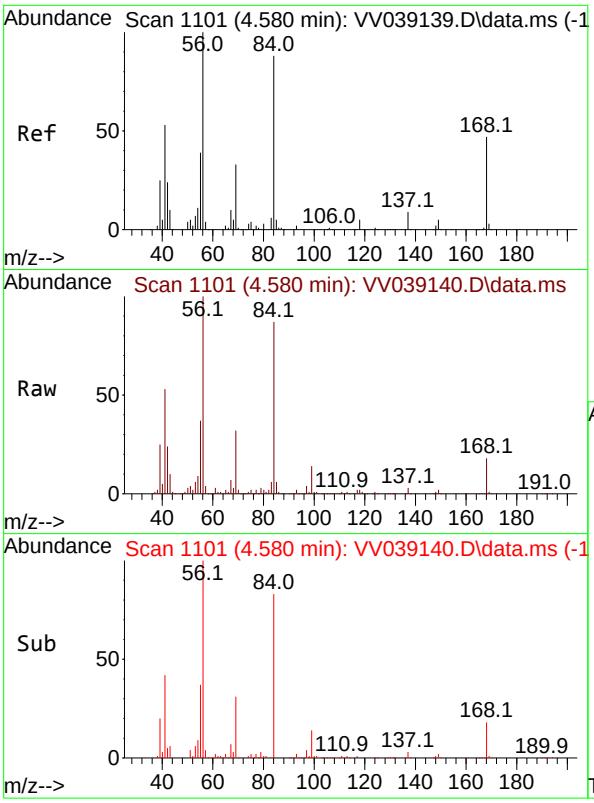


#30
Chloroform
Concen: 87.087 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 83 Resp: 1682895

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.1	78.1



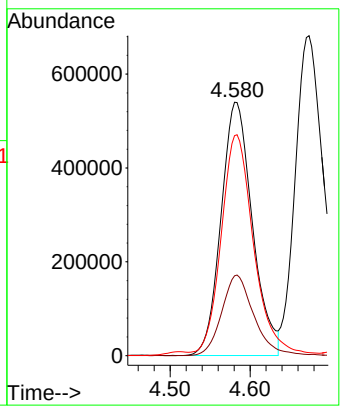


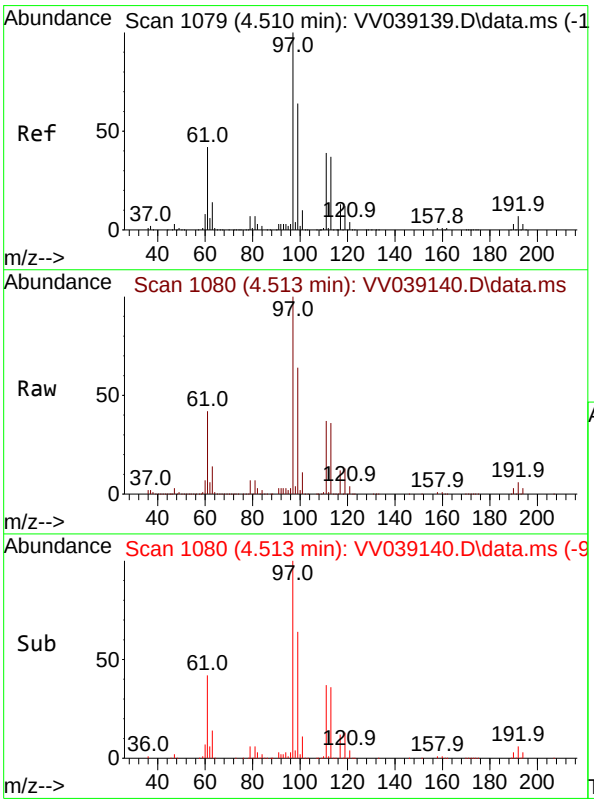
#31
Cyclohexane
Concen: 97.182 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 1473260

Ion	Ratio	Lower	Upper
56	100		
69	31.5	26.2	39.2
84	85.3	70.3	105.5

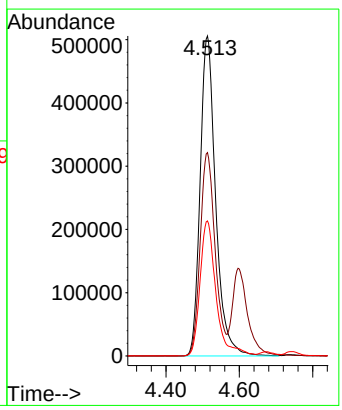


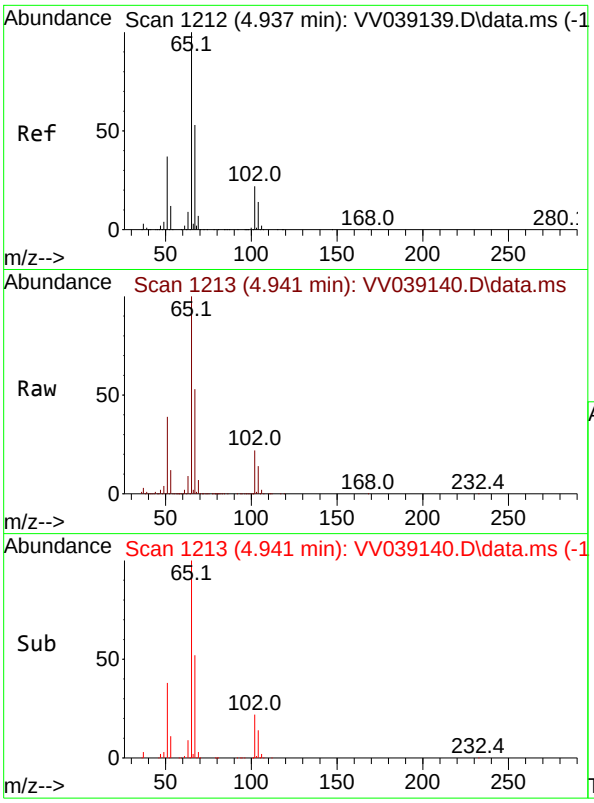


#32
1,1,1-Trichloroethane
Concen: 88.700 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 97 Resp: 1483938

Ion	Ratio	Lower	Upper
97	100		
99	61.3	49.6	74.4
61	43.5	34.5	51.7



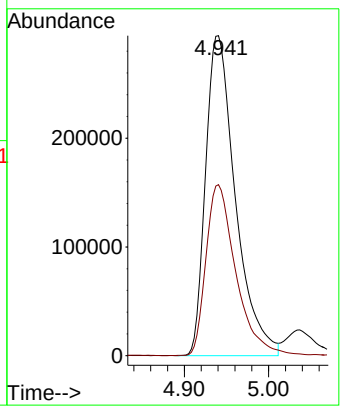


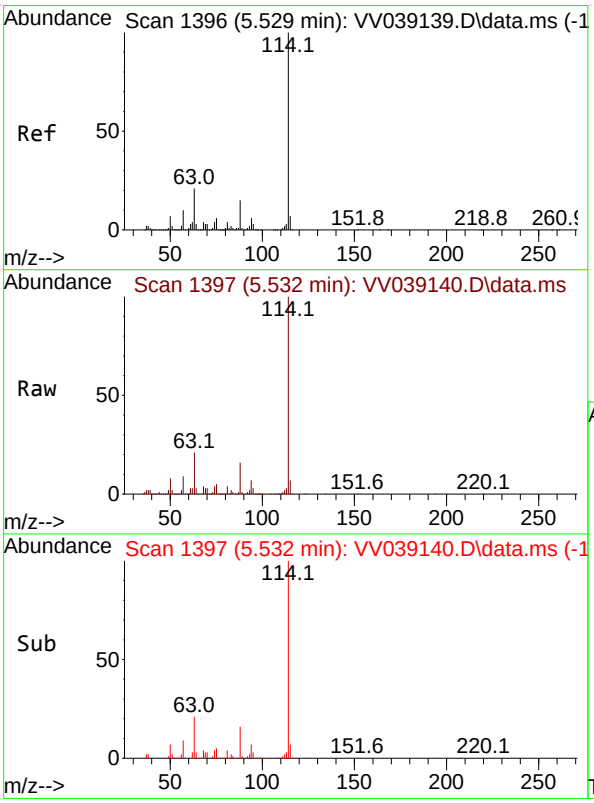
#33
1,2-Dichloroethane-d4
Concen: 85.362 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 725543

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.0

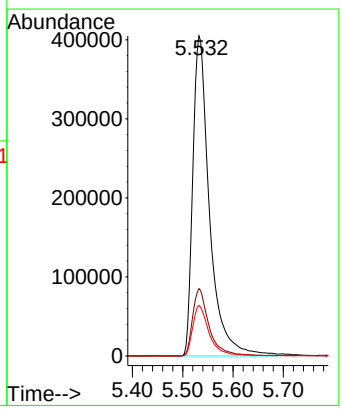


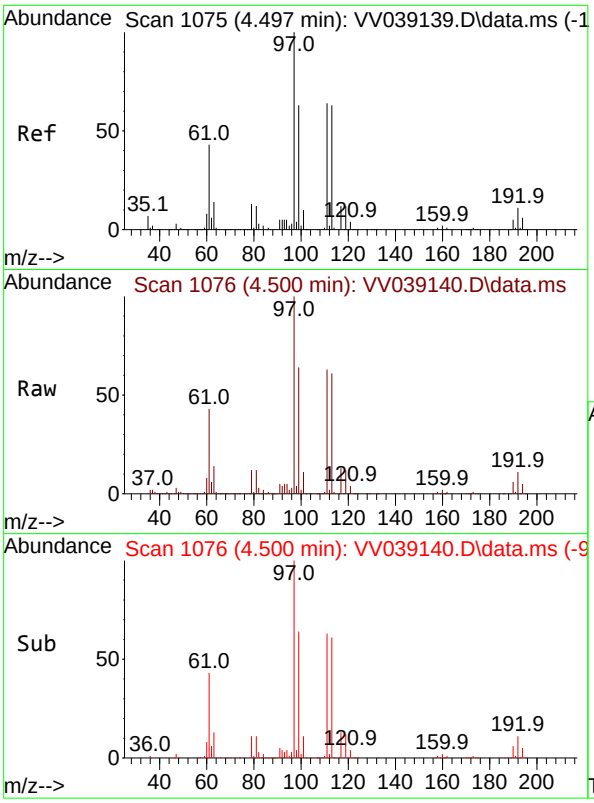


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:114 Resp: 935392

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.6
88	15.8	0.0	30.8



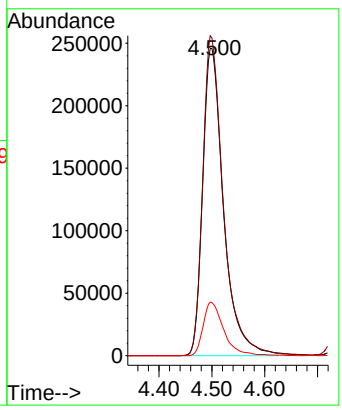


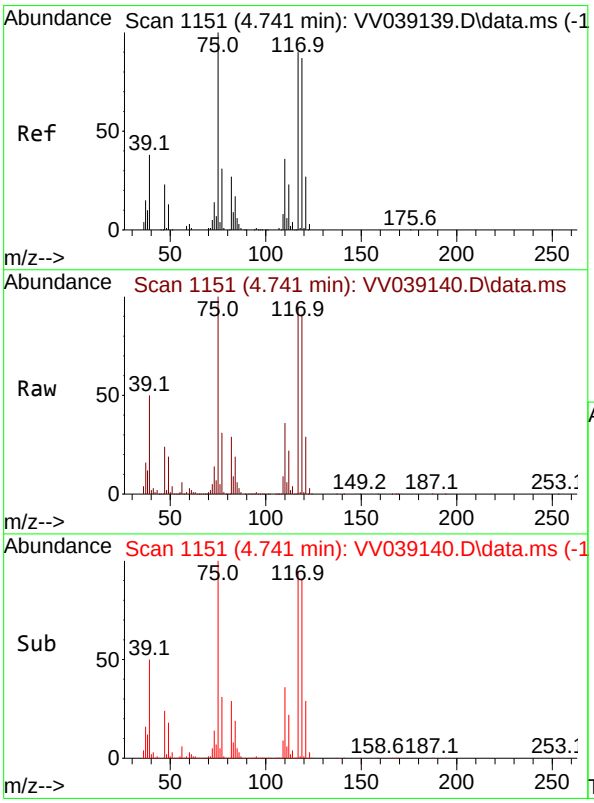
#35
Dibromofluoromethane
Concen: 89.684 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 674408

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	17.0	13.8	20.8

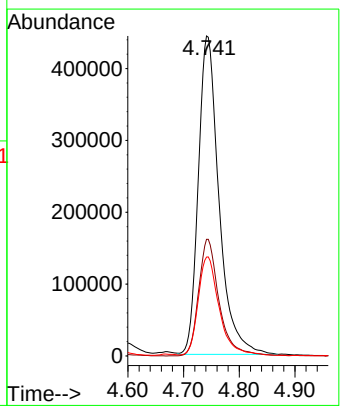


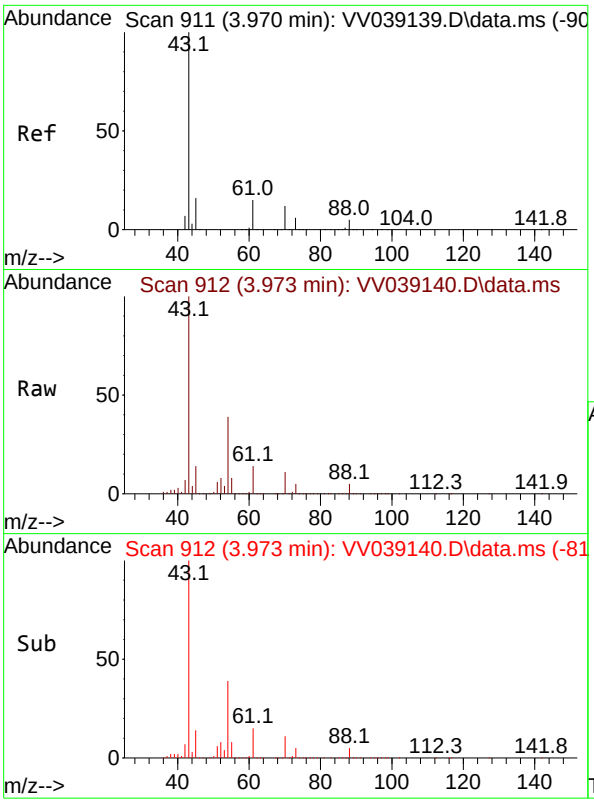


#36
1,1-Dichloropropene
Concen: 99.944 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1144520

Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.1	54.1
77	31.3	24.8	37.2



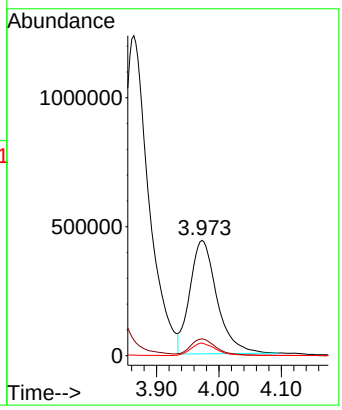


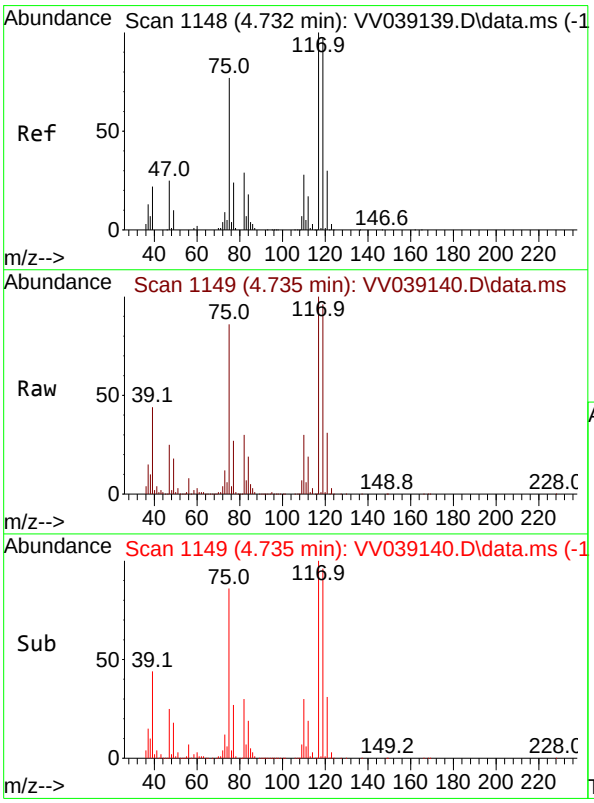
#37
Ethyl Acetate
Concen: 94.580 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1328655

Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.3	15.5
70	10.0	8.0	12.0

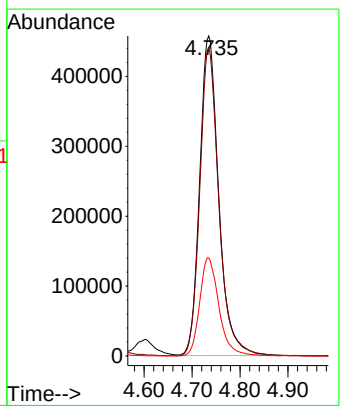


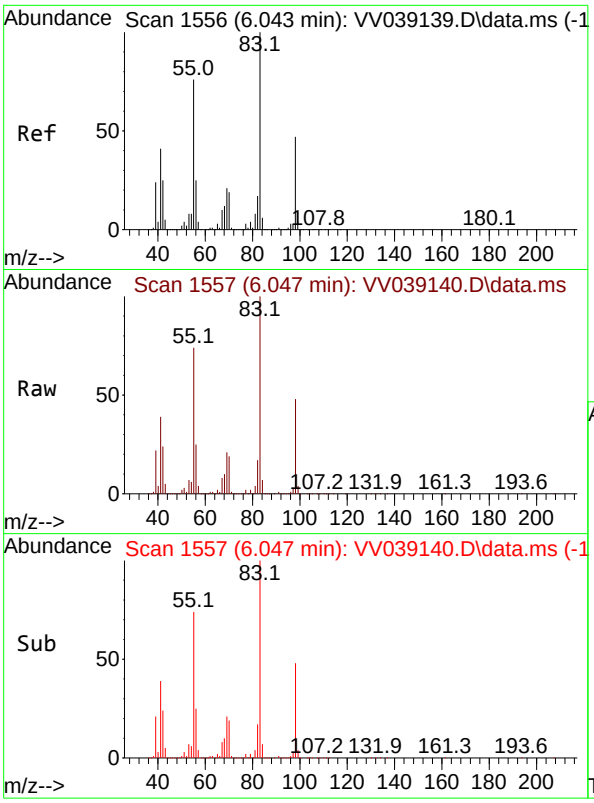


#38
Carbon Tetrachloride
Concen: 91.566 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:117 Resp: 1263028

Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.2	115.8
121	30.7	24.2	36.2



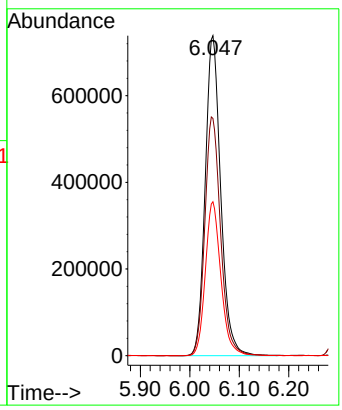


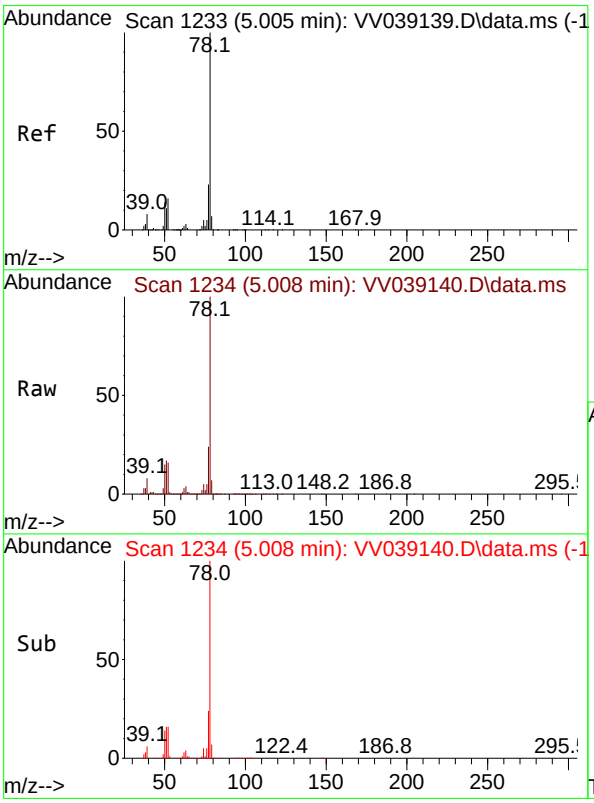
#39
Methylcyclohexane
Concen: 116.766 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 1603169

Ion	Ratio	Lower	Upper
83	100		
55	74.1	60.5	90.7
98	48.1	37.8	56.6

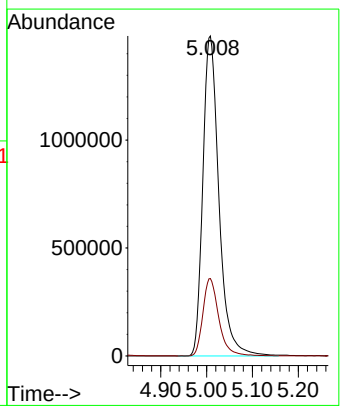


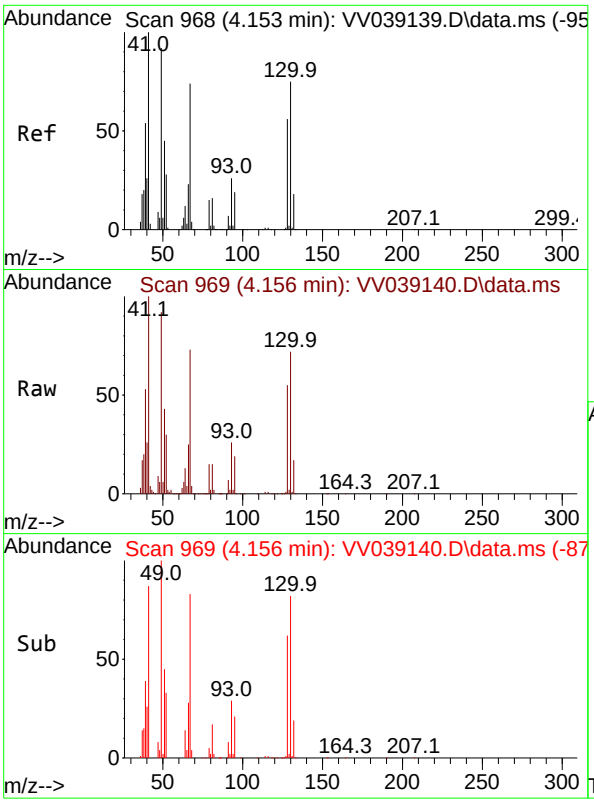


#40
Benzene
Concen: 97.560 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 78 Resp: 3611886

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.7	28.1



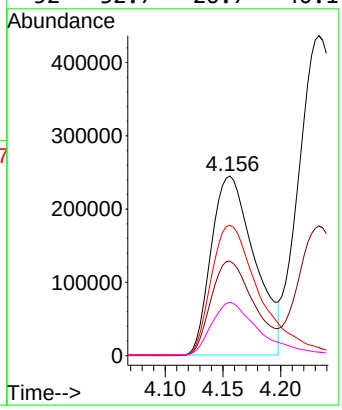


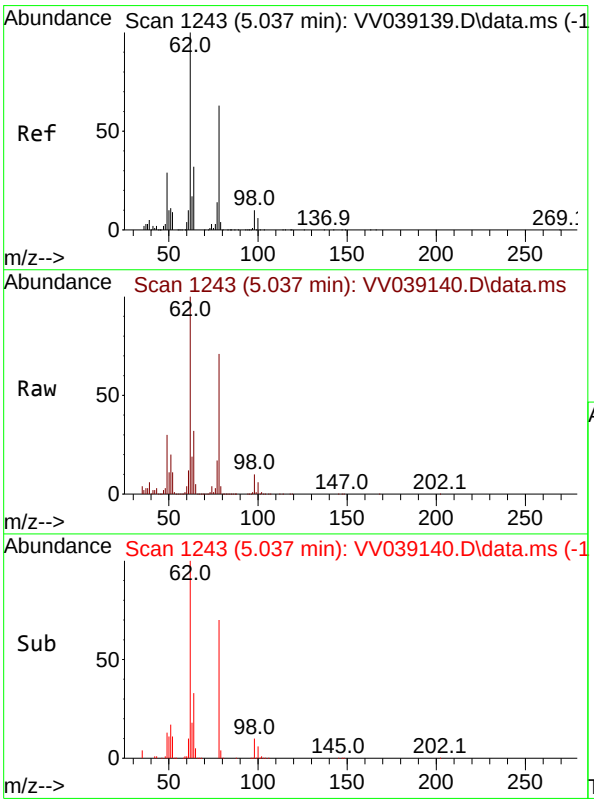
#41
Methacrylonitrile
Concen: 100.494 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 639301

Ion	Ratio	Lower	Upper
41	100		
39	52.4	42.2	63.2
67	83.7	67.9	101.9
52	32.7	26.7	40.1

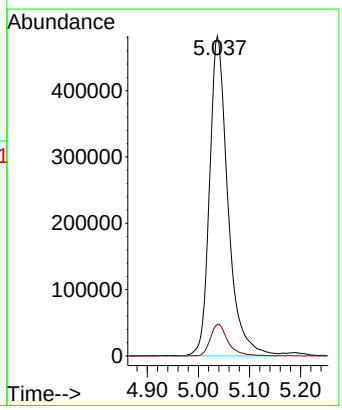


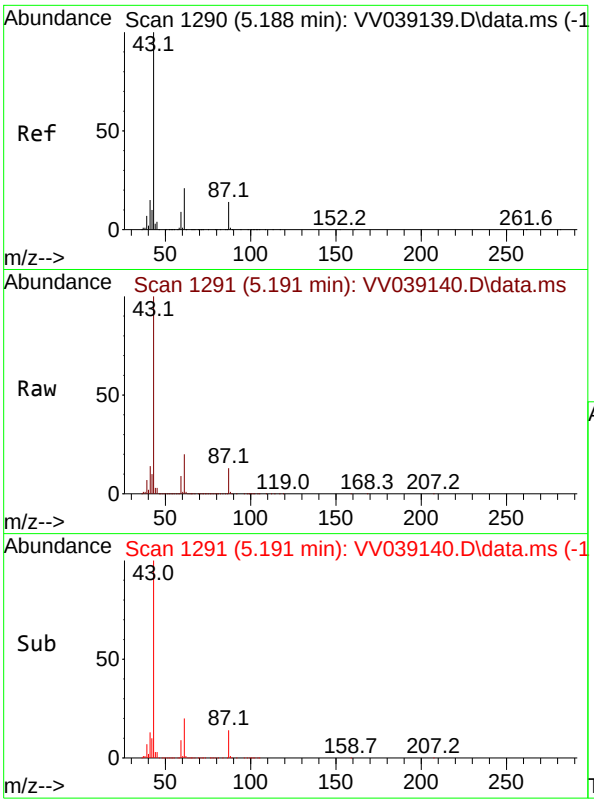


#42
1,2-Dichloroethane
Concen: 92.737 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 62 Resp: 1202991

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.2



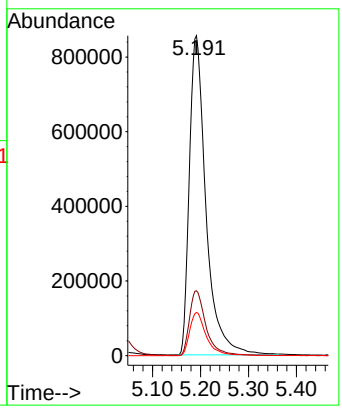


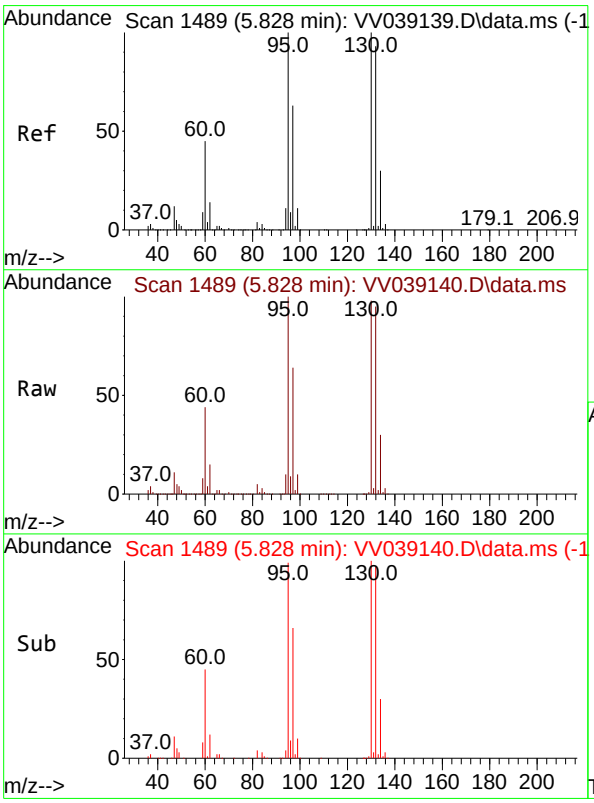
#43
Isopropyl Acetate
Concen: 106.372 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2058622

Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.9	23.9
87	13.6	11.0	16.6

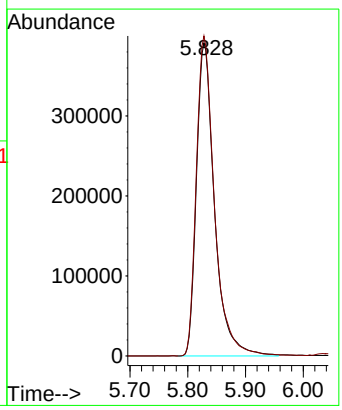


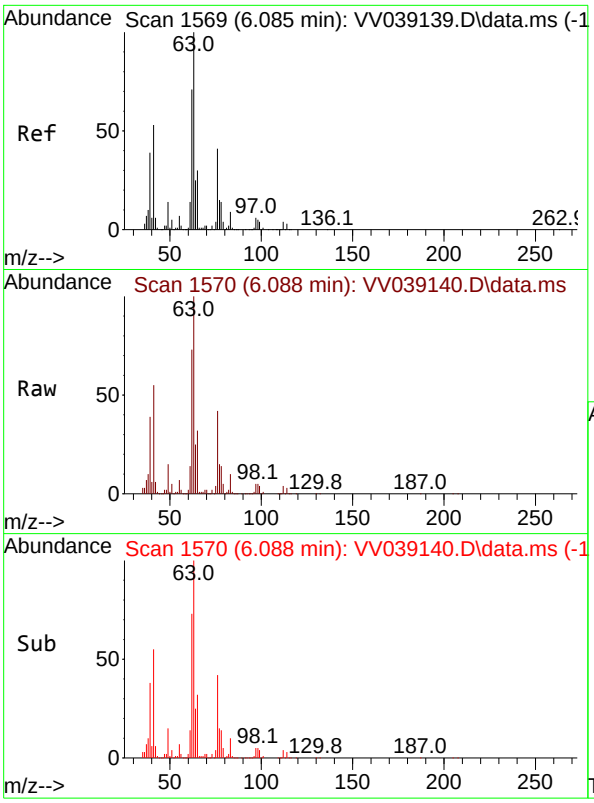


#44
Trichloroethene
Concen: 99.474 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:130 Resp: 849813

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	199.2



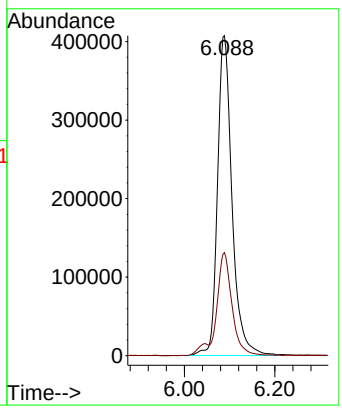


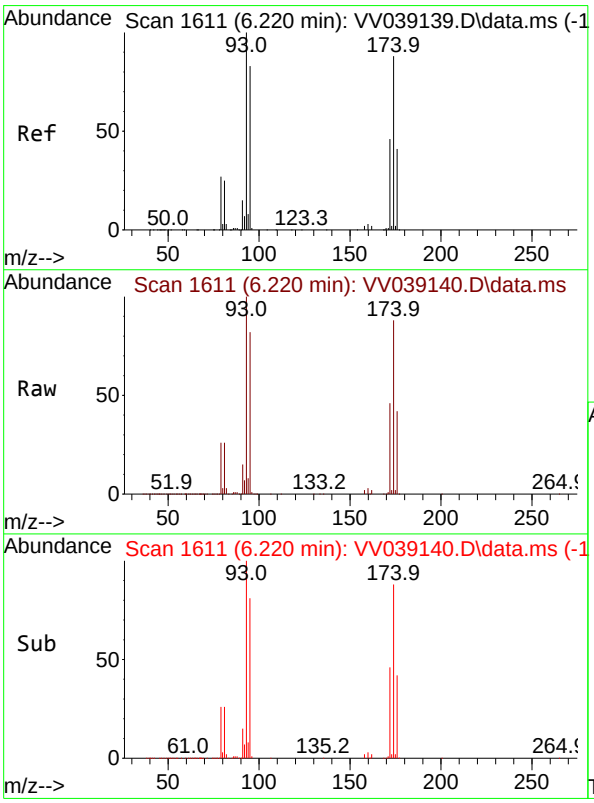
#45
1,2-Dichloropropane
Concen: 98.813 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 909288

Ion	Ratio	Lower	Upper
63	100		
65	32.2	23.7	35.5

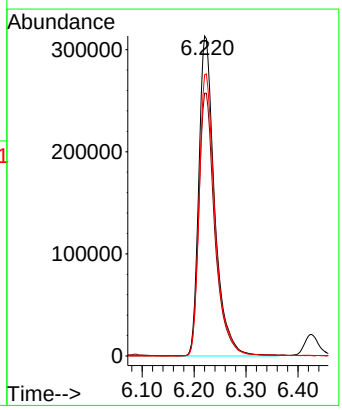


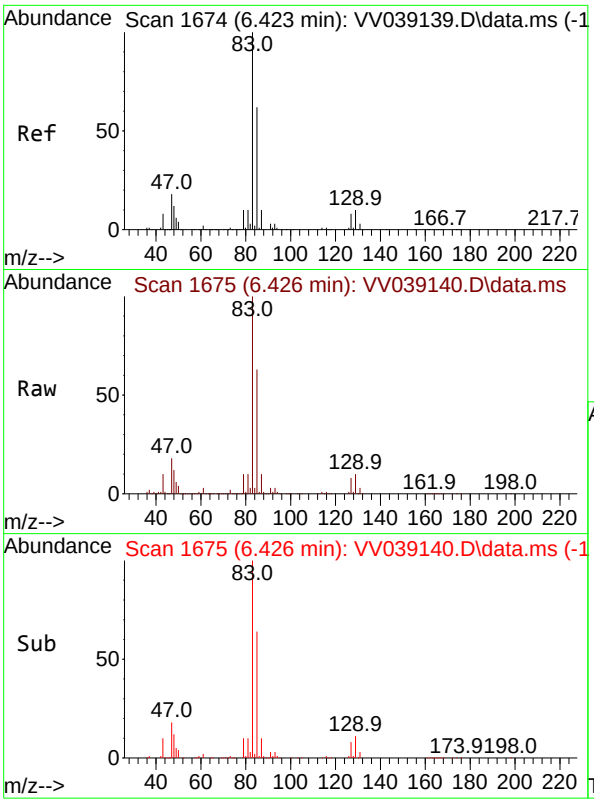


#46
Dibromomethane
Concen: 93.898 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 93 Resp: 661336

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	88.3	69.0	103.4



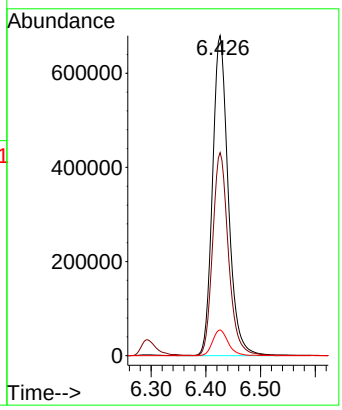


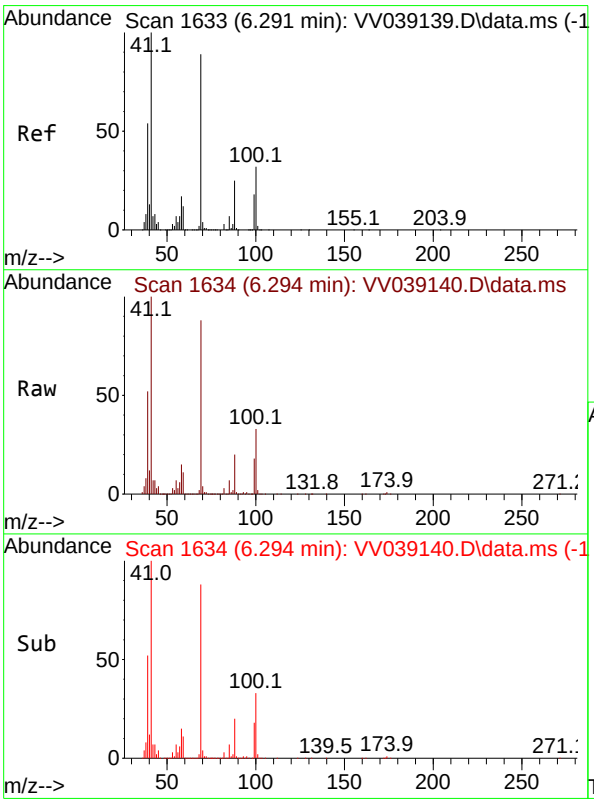
#47
Bromodichloromethane
Concen: 93.118 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 1355845

Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.7	74.5
127	8.0	6.6	9.8

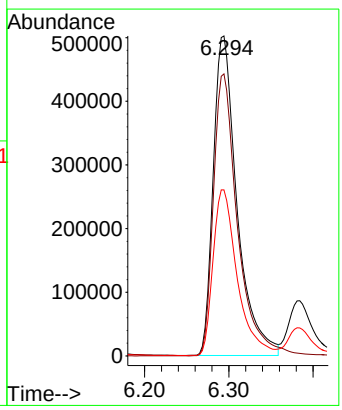


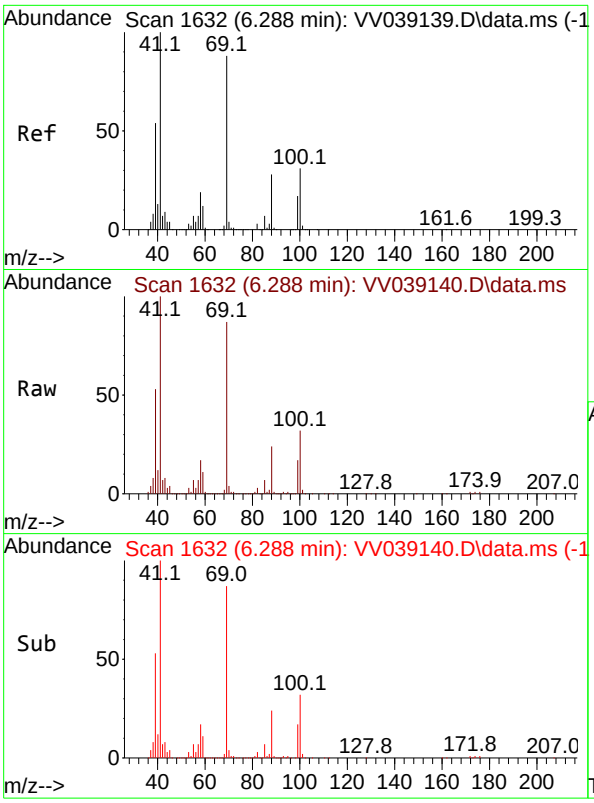


#48
Methyl methacrylate
Concen: 111.182 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 41 Resp: 984431

Ion	Ratio	Lower	Upper
41	100		
69	90.0	72.4	108.6
39	52.7	42.5	63.7



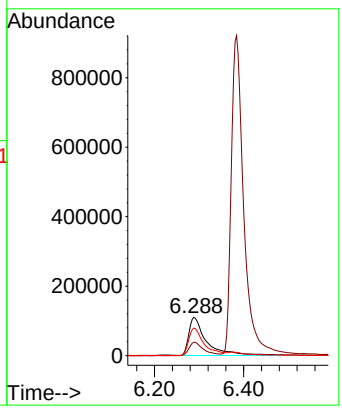


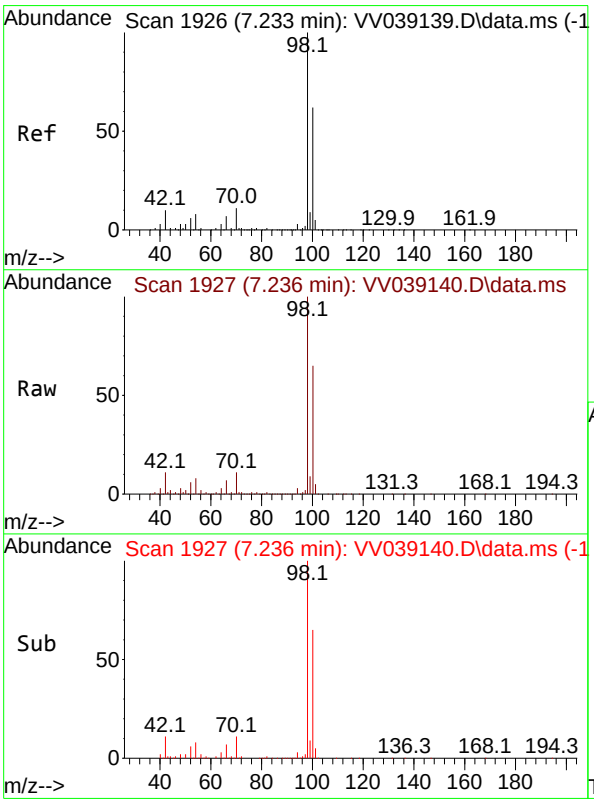
#49
1,4-Dioxane
Concen: 2191.331 ug/l
RT: 6.288 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 304943

Ion	Ratio	Lower	Upper
88	100		
43	29.1	25.1	37.7
58	62.6	53.6	80.4

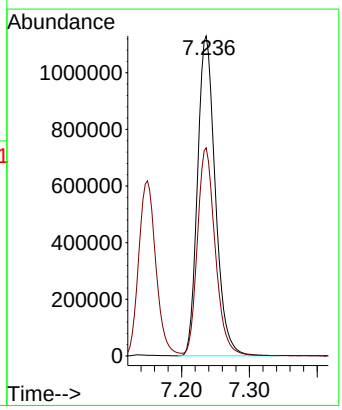


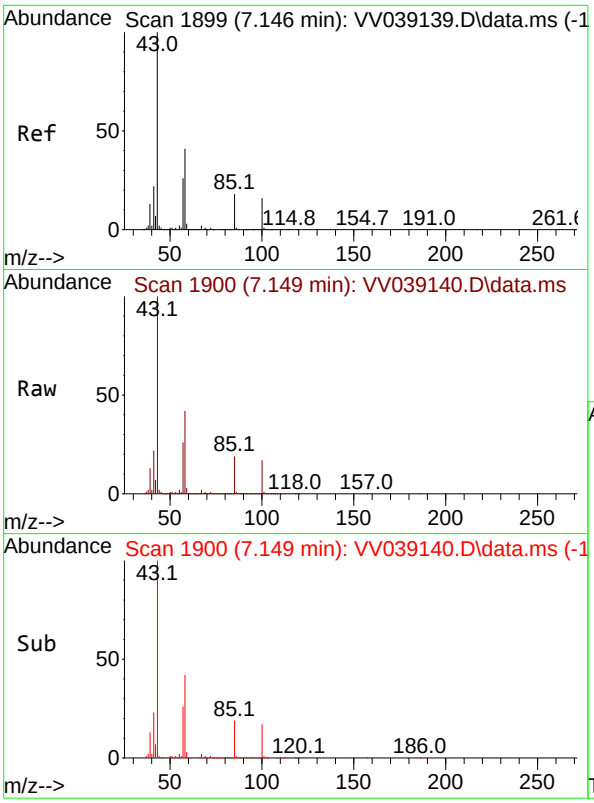


#50
Toluene-d8
Concen: 92.932 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 98 Resp: 2052477

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.2



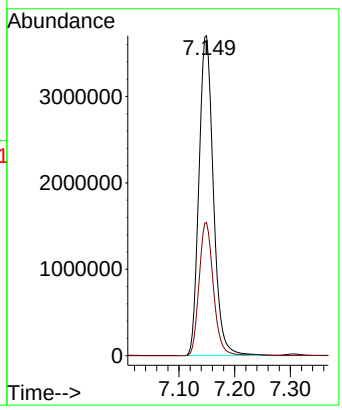


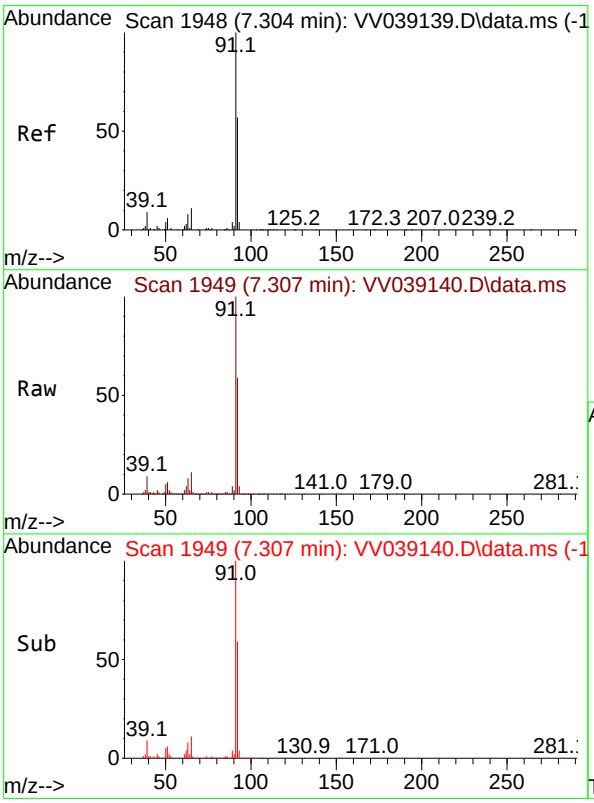
#51
4-Methyl-2-Pentanone
Concen: 539.372 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 6674594

Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.3	48.5

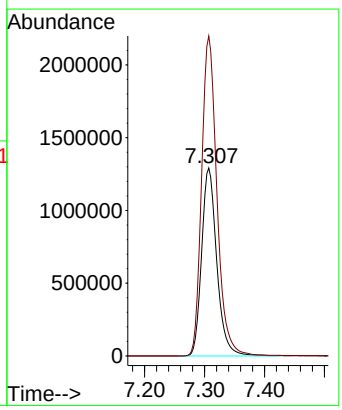


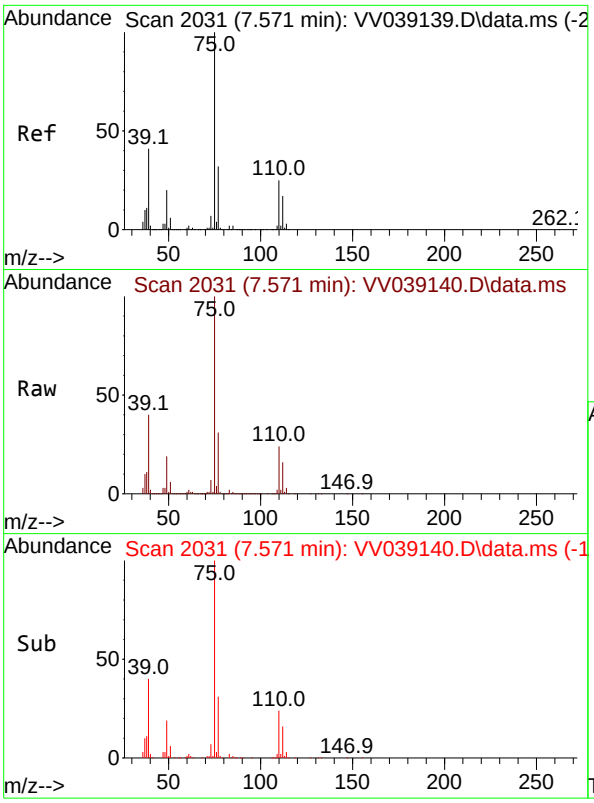


#52
Toluene
Concen: 105.813 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 92 Resp: 2271340

Ion	Ratio	Lower	Upper
92	100		
91	172.4	139.2	208.8



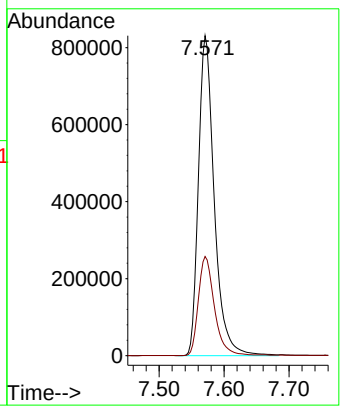


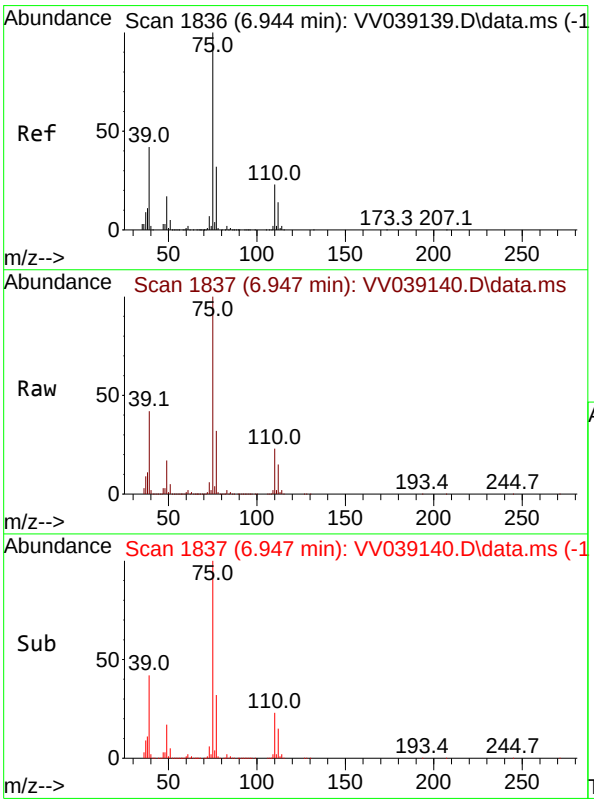
#53
t-1,3-Dichloropropene
Concen: 110.970 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 1408125

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.9	38.9

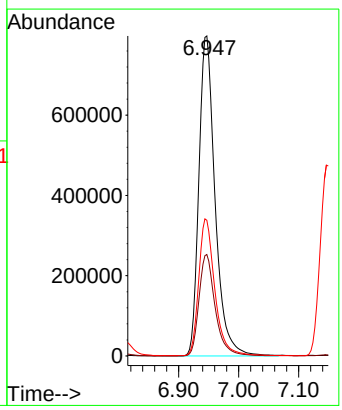


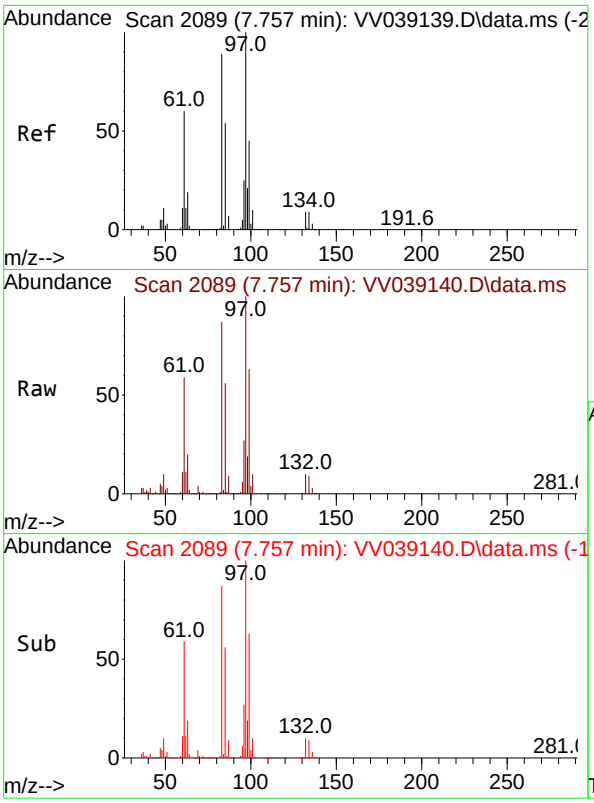


#54
cis-1,3-Dichloropropene
Concen: 107.178 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1501380

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.5	38.3
39	42.3	33.8	50.6



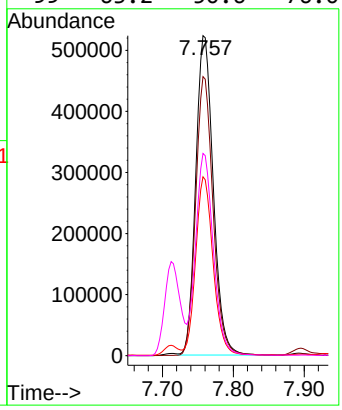


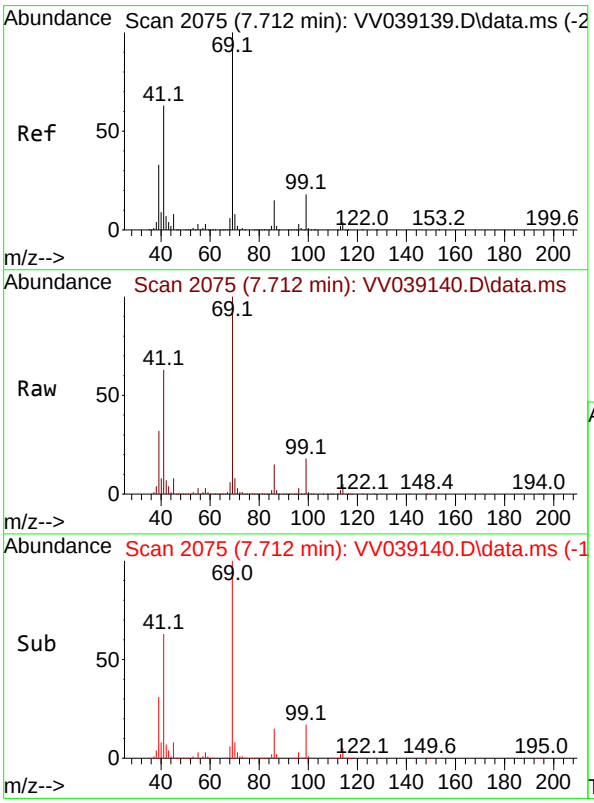
#55
1,1,2-Trichloroethane
Concen: 93.280 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 897804

Ion	Ratio	Lower	Upper
97	100		
83	87.2	71.1	106.7
85	55.8	44.6	67.0
99	63.2	50.6	76.0

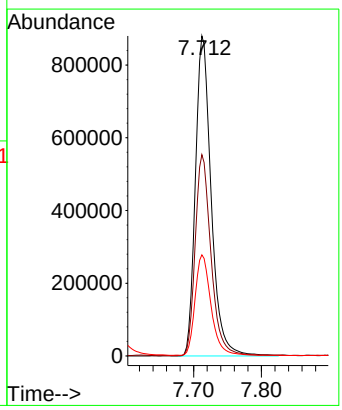


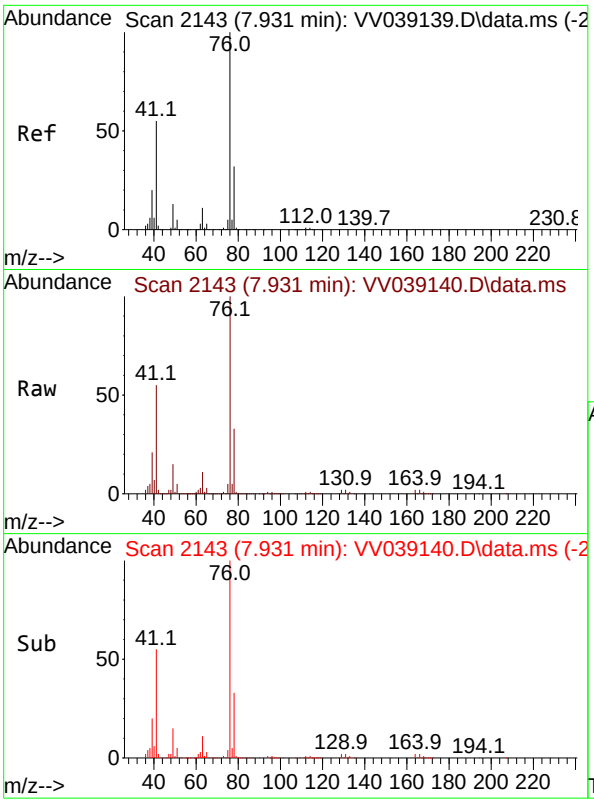


#56
Ethyl methacrylate
Concen: 124.621 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 69 Resp: 1424432

Ion	Ratio	Lower	Upper
69	100		
41	62.8	50.7	76.1
39	31.6	26.0	39.0



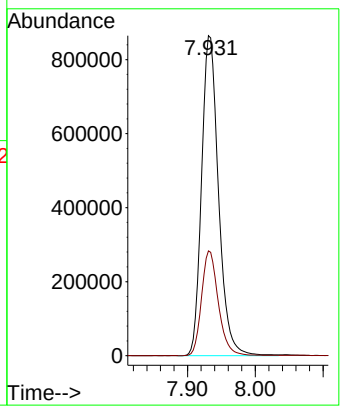


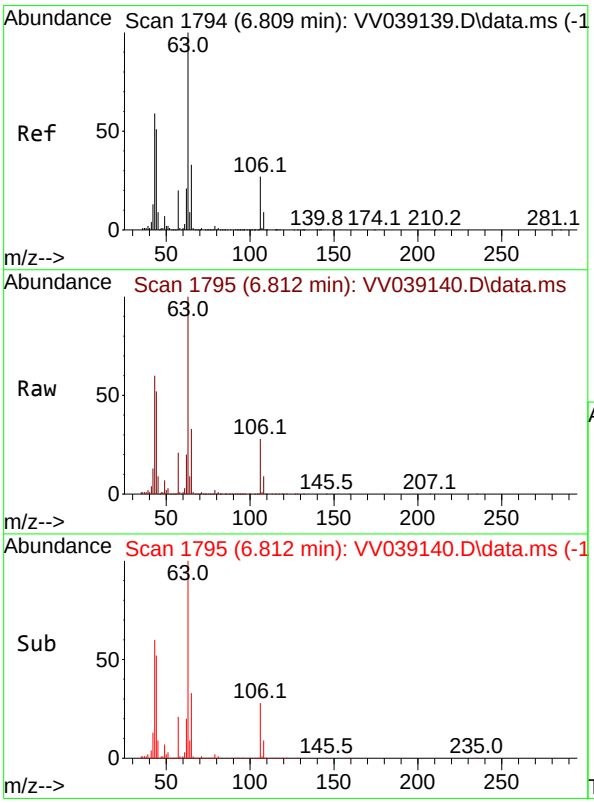
#57
1,3-Dichloropropane
Concen: 98.832 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 1501225

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.1	39.1

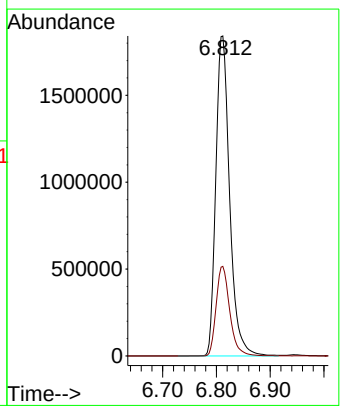


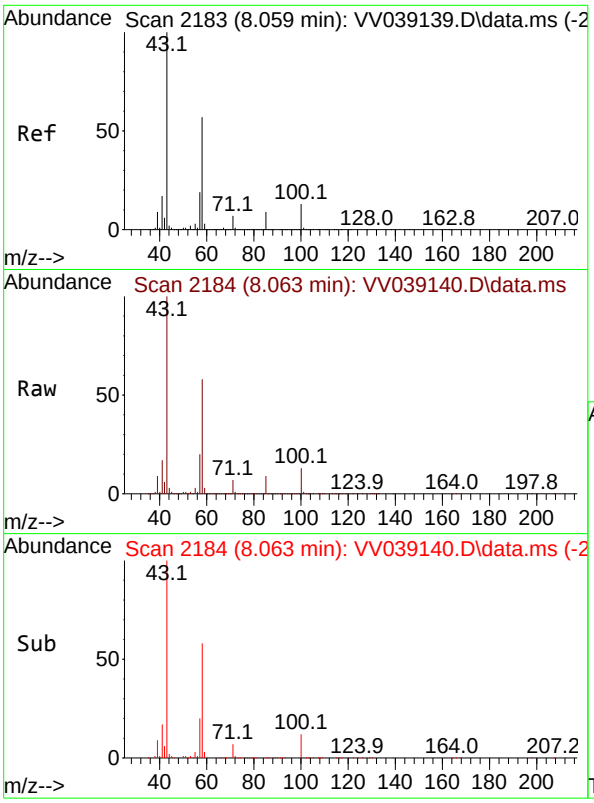


#58
2-Chloroethyl Vinyl ether
Concen: 498.705 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 63 Resp: 3282267

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.1	33.1



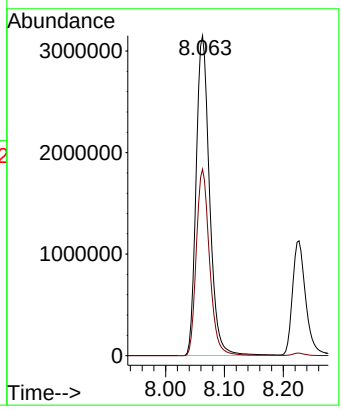


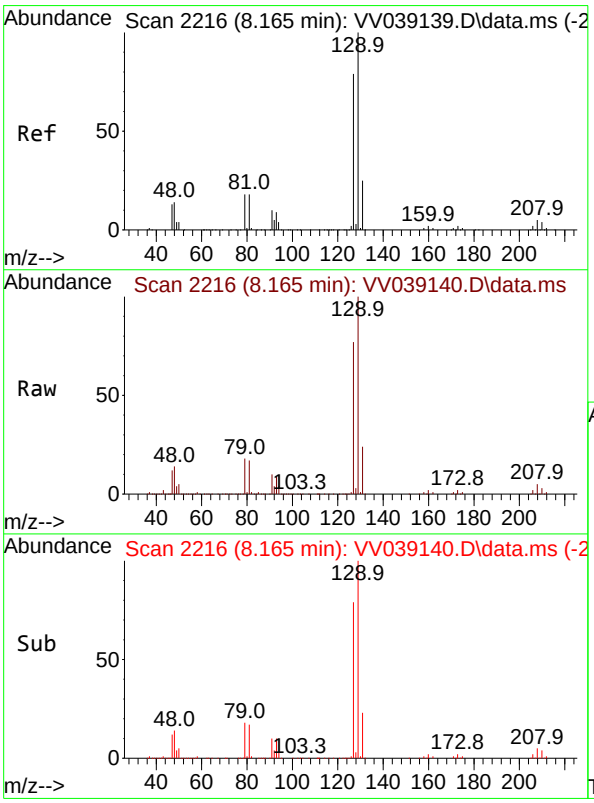
#59
2-Hexanone
Concen: 497.186 ug/l
RT: 8.063 min Scan# 21
Delta R.T. 0.004 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 4988835

Ion	Ratio	Lower	Upper
43	100		
58	57.6	28.3	85.0

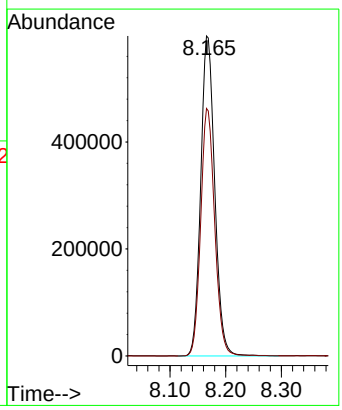


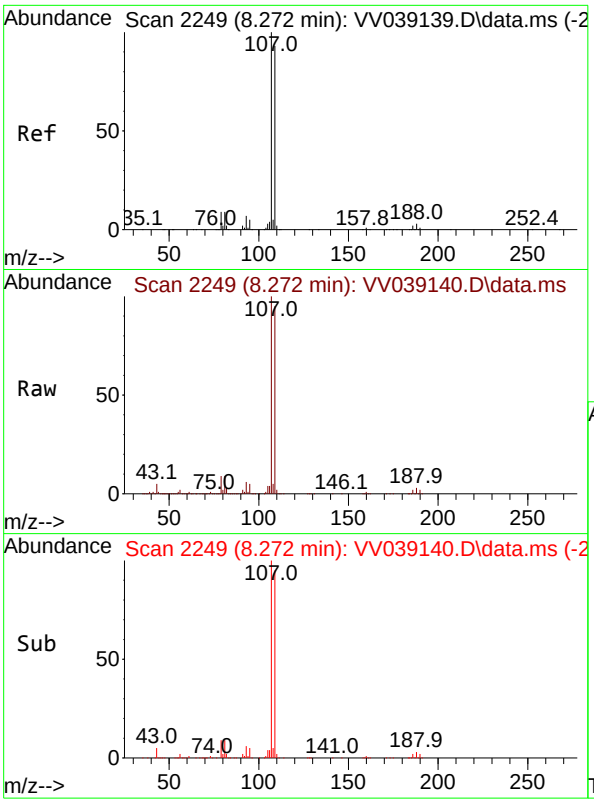


#60
Dibromochloromethane
Concen: 95.206 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:129 Resp: 1044126

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.3	117.9



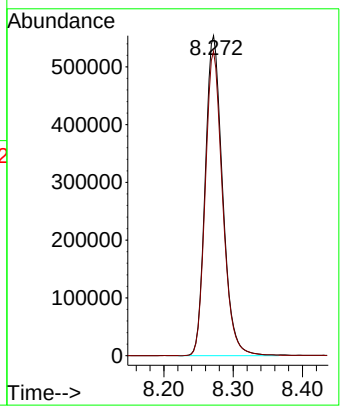


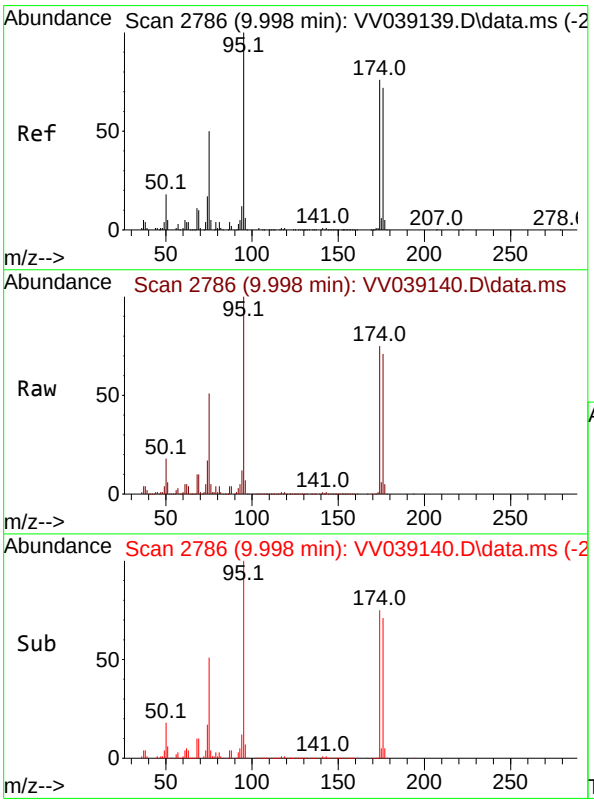
#61
1,2-Dibromoethane
Concen: 97.622 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 960914

Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.6	112.0

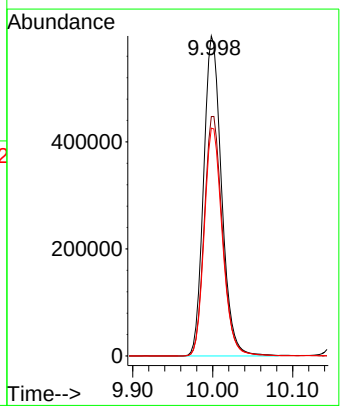


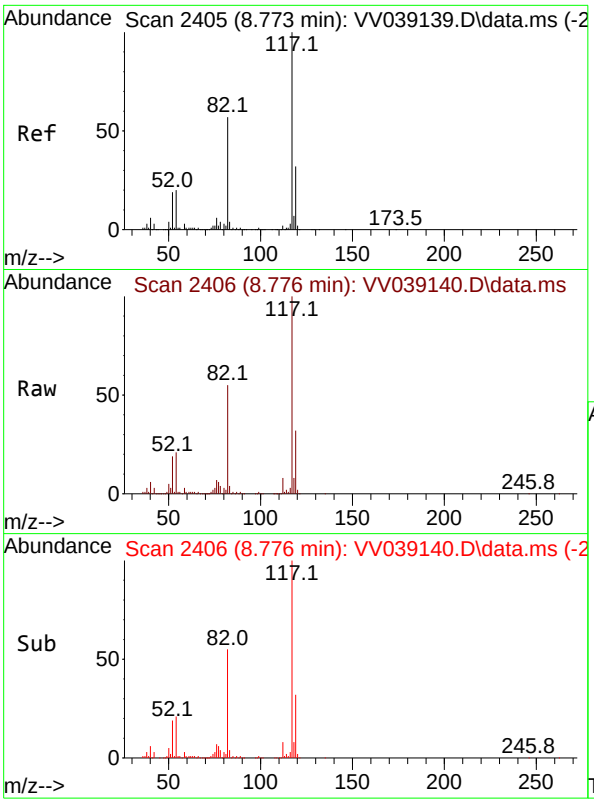


#62
4-Bromofluorobenzene
Concen: 103.112 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 95 Resp: 937505

Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	150.4
176	71.8	0.0	144.2



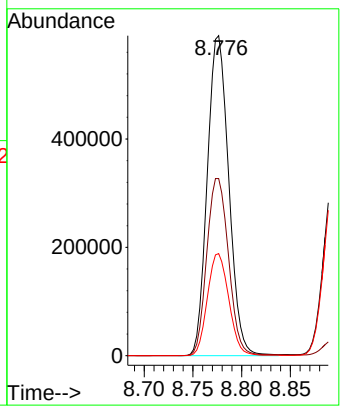


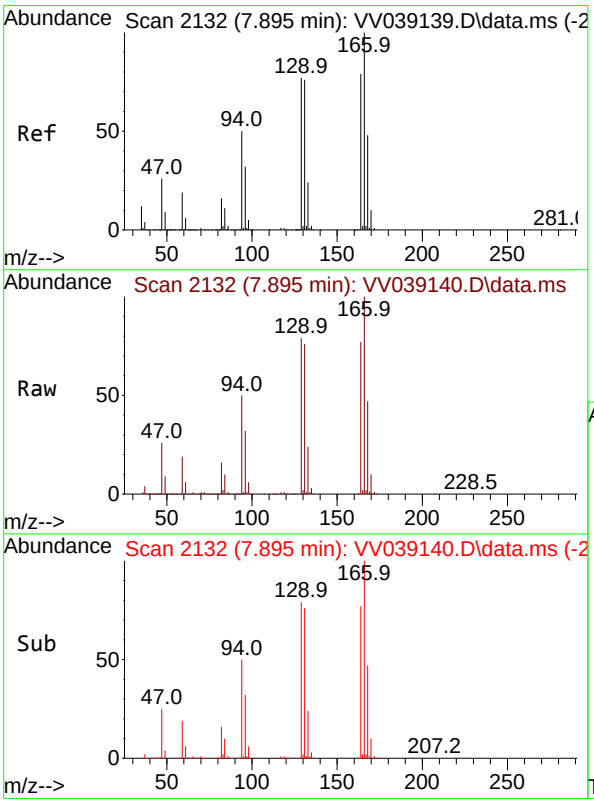
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 904902

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.4	68.2
119	31.9	25.6	38.4

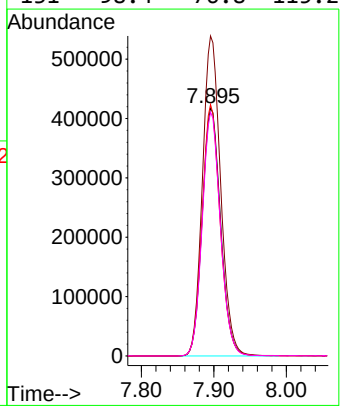


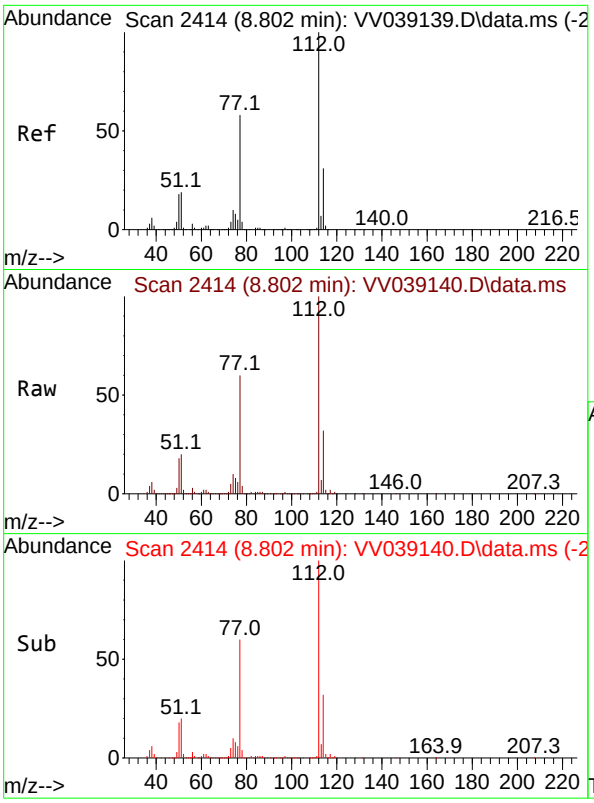


#64
Tetrachloroethene
Concen: 97.167 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:164 Resp: 736462

Ion	Ratio	Lower	Upper
164	100		
166	129.1	101.6	152.4
129	101.5	78.5	117.7
131	98.4	76.8	115.2



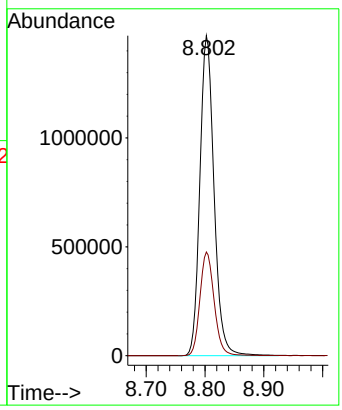


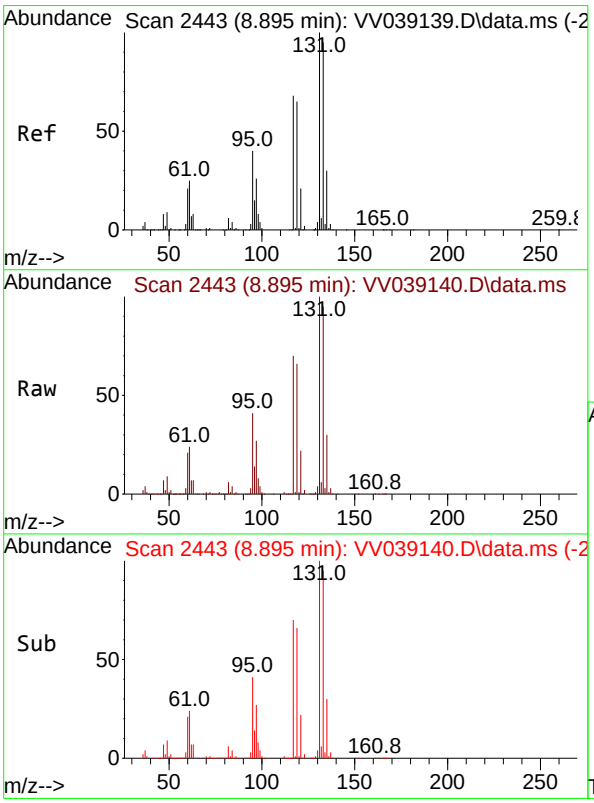
#65
Chlorobenzene
Concen: 97.480 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 2457021

Ion	Ratio	Lower	Upper
112	100		
114	32.4	24.6	37.0

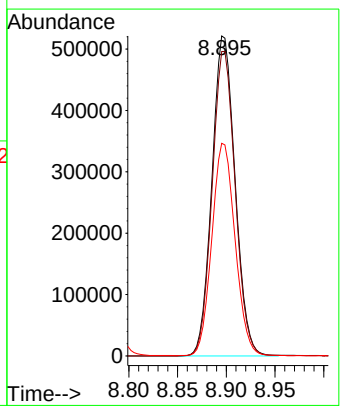


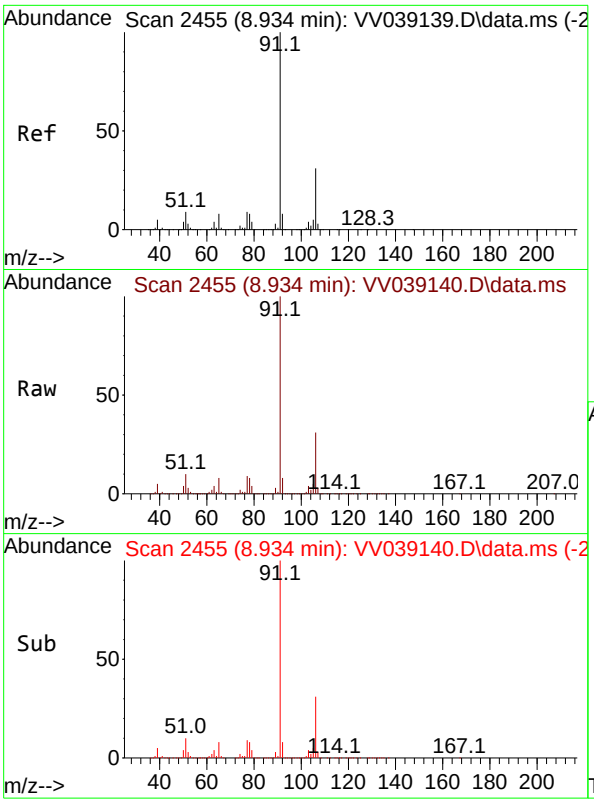


#66
1,1,1,2-Tetrachloroethane
Concen: 94.816 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:131 Resp: 863523

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	141.8
119	66.6	33.3	99.8



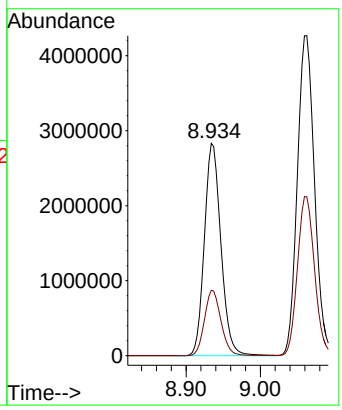


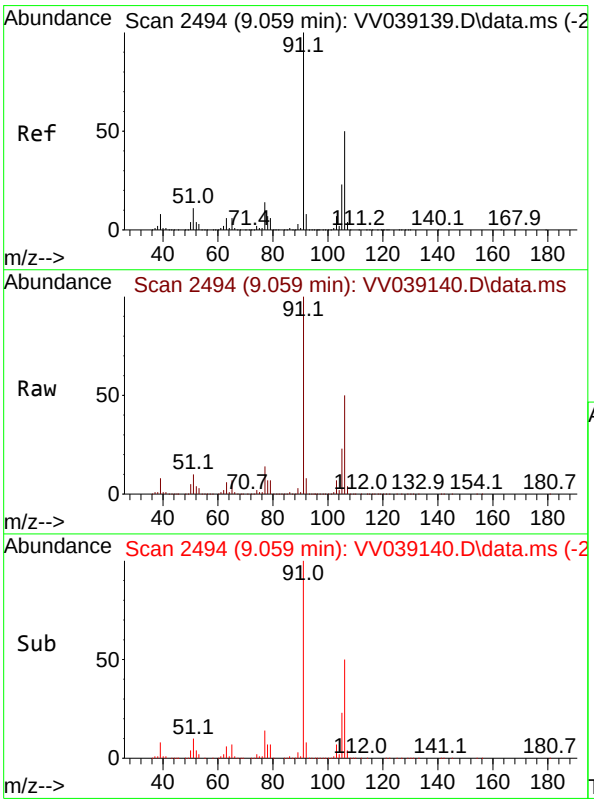
#67
Ethyl Benzene
Concen: 114.700 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 4376266

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	37.0

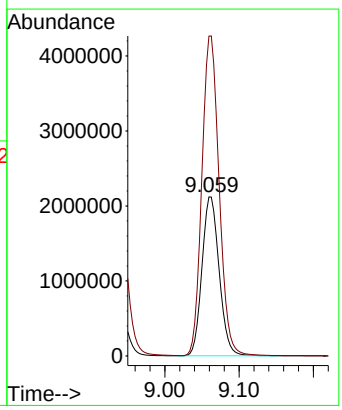


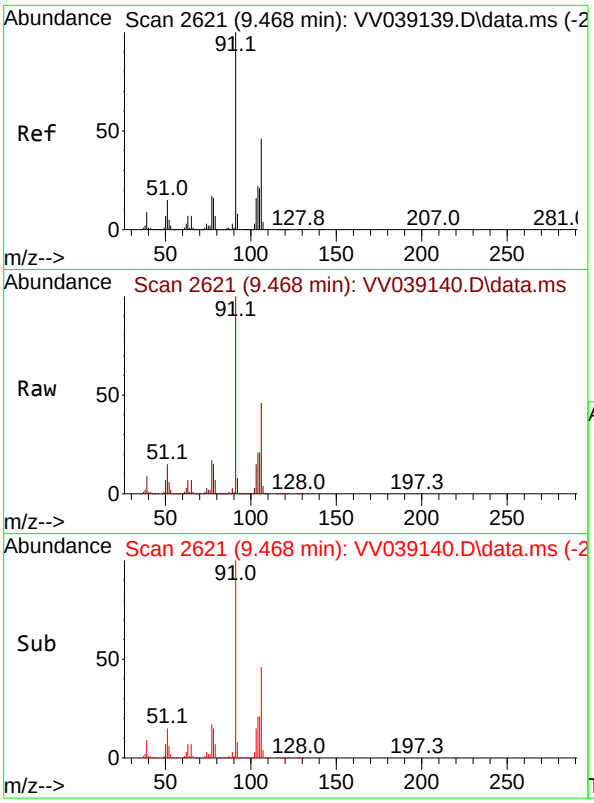


#68
m/p-Xylenes
Concen: 230.657 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:106 Resp: 3396653

Ion	Ratio	Lower	Upper
106	100		
91	202.4	162.5	243.7



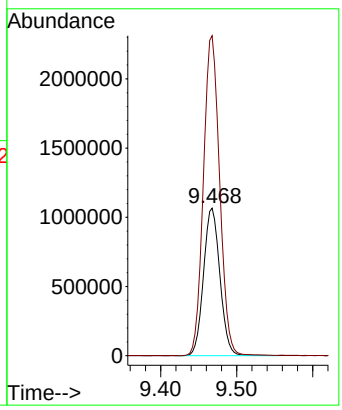


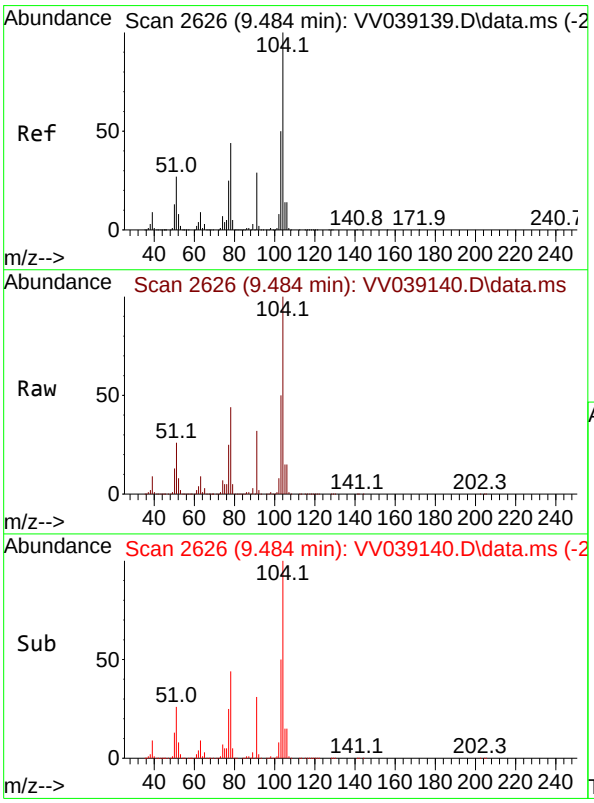
#69
o-Xylene
Concen: 122.170 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 1592963

Ion	Ratio	Lower	Upper
106	100		
91	215.6	109.1	327.3

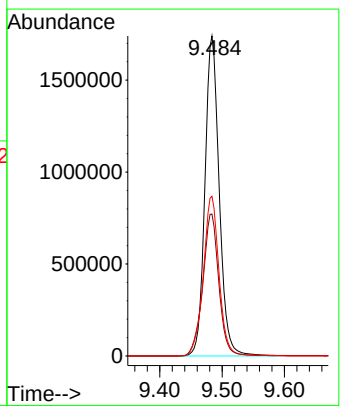


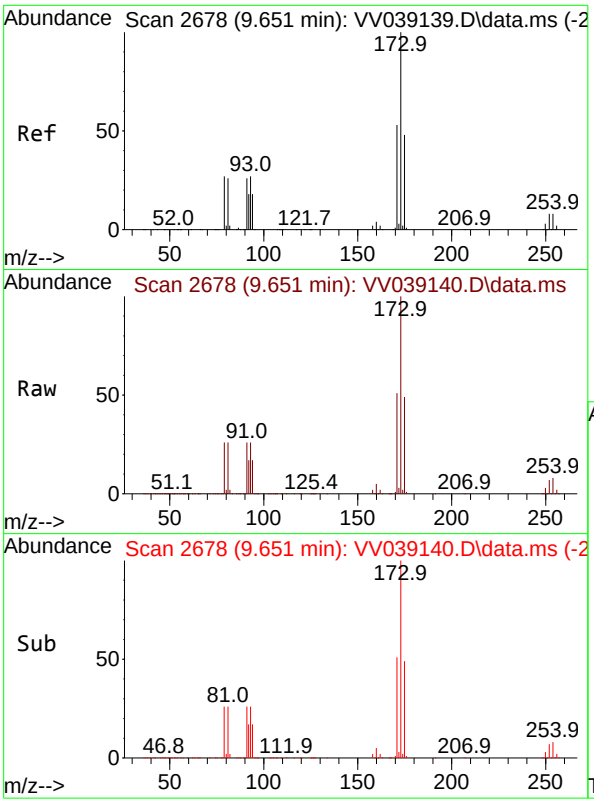


#70
Styrene
Concen: 99.832 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:104 Resp: 2781887

Ion	Ratio	Lower	Upper
104	100		
78	49.7	39.8	59.6
103	54.8	43.4	65.2



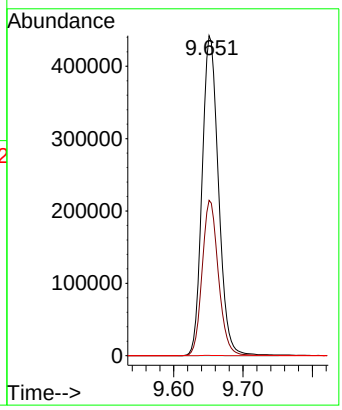


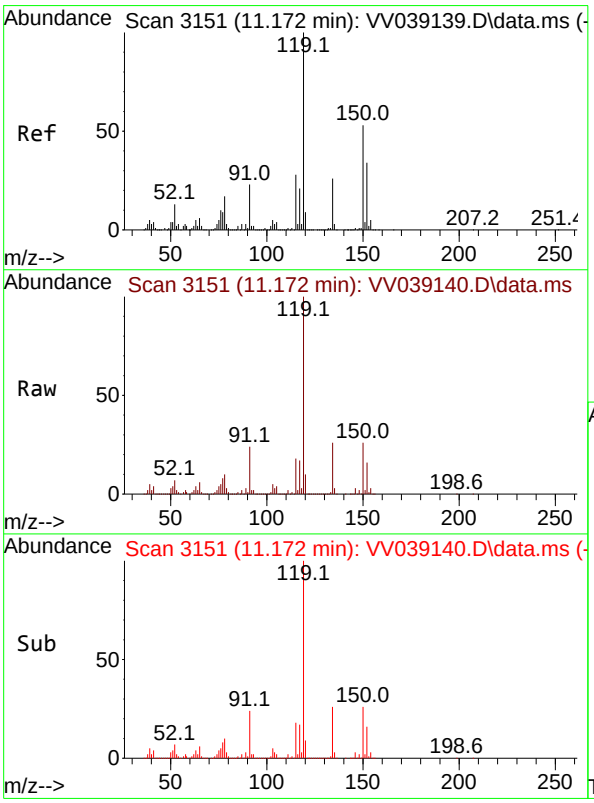
#71
Bromoform
Concen: 101.838 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 724467

Ion	Ratio	Lower	Upper
173	100		
175	48.2	23.9	71.7
254	0.1	0.1	0.1

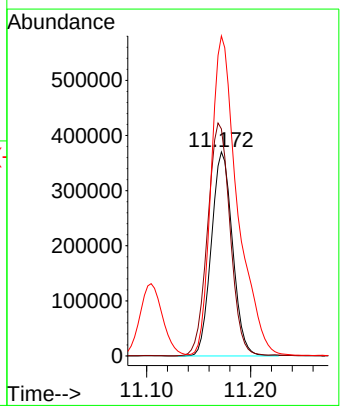


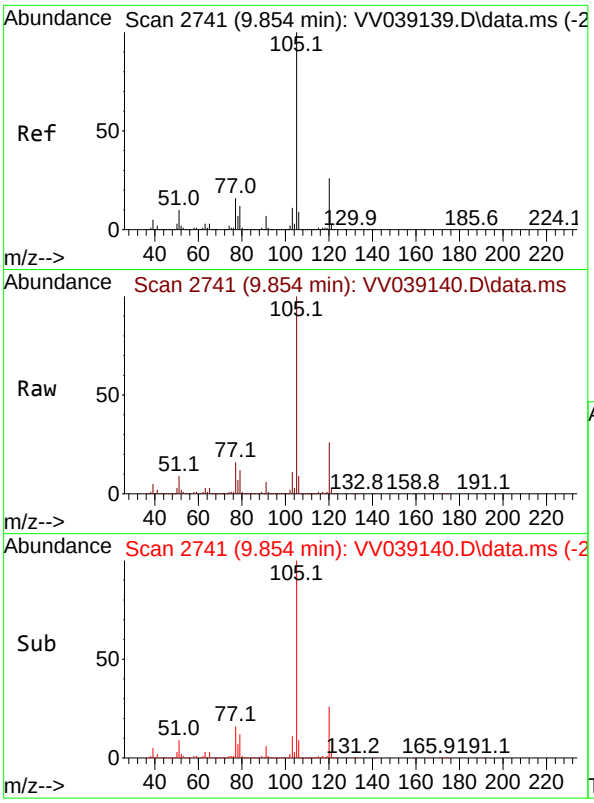


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:152 Resp: 523452

Ion	Ratio	Lower	Upper
152	100		
115	121.0	44.8	134.4
150	195.4	0.0	353.8



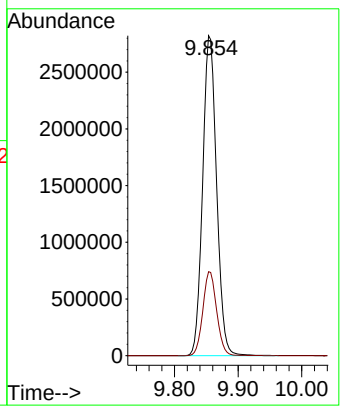


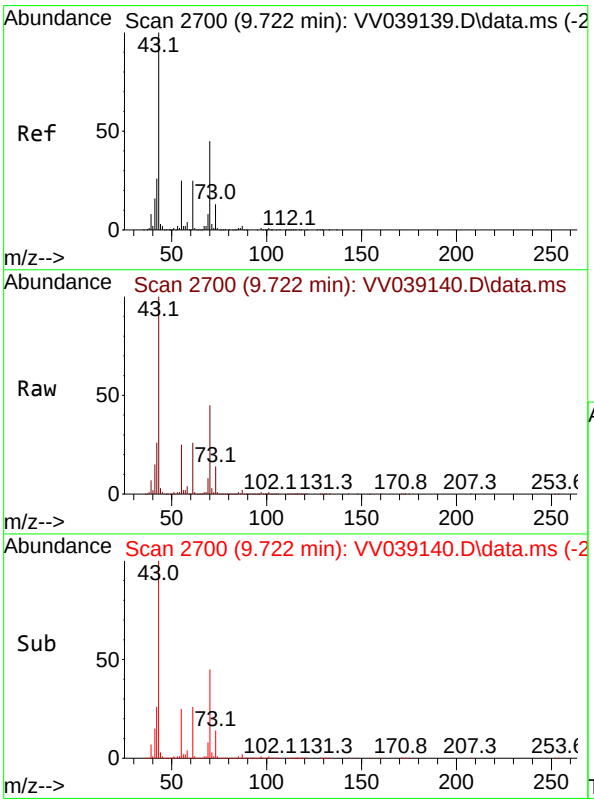
#73
Isopropylbenzene
Concen: 112.946 ug/l
RT: 9.854 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 4288139

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.1

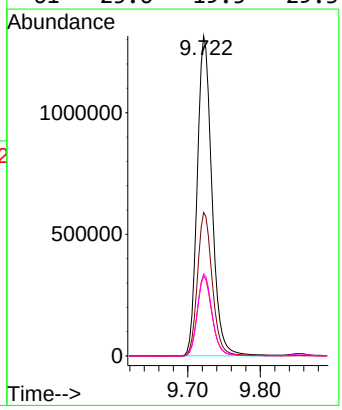


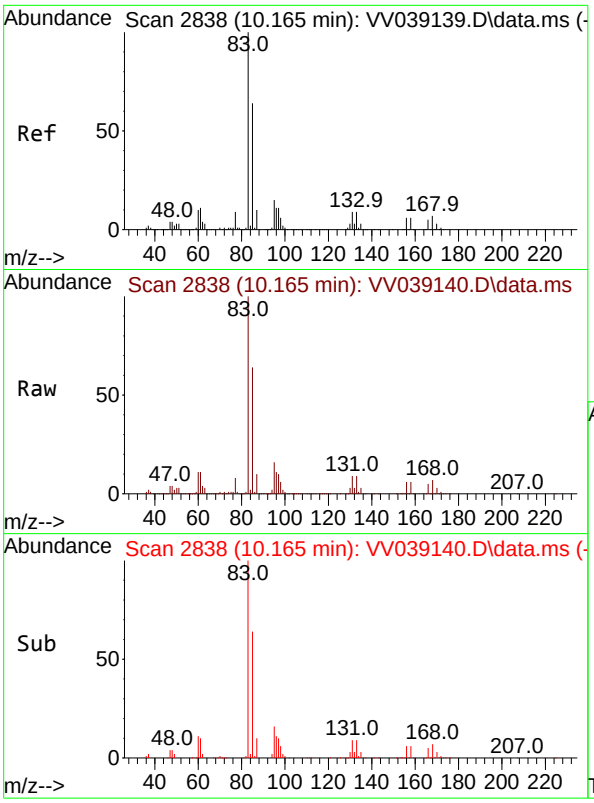


#74
N-amyl acetate
Concen: 121.948 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 1846779

Ion	Ratio	Lower	Upper
43	100		
70	45.4	35.4	53.0
55	25.4	20.6	30.8
61	25.6	19.5	29.3



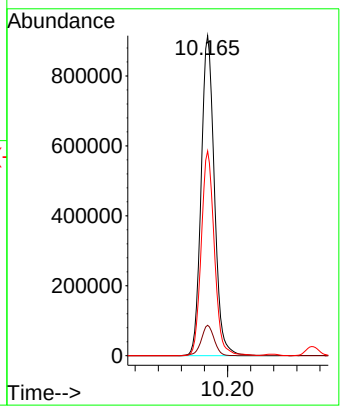


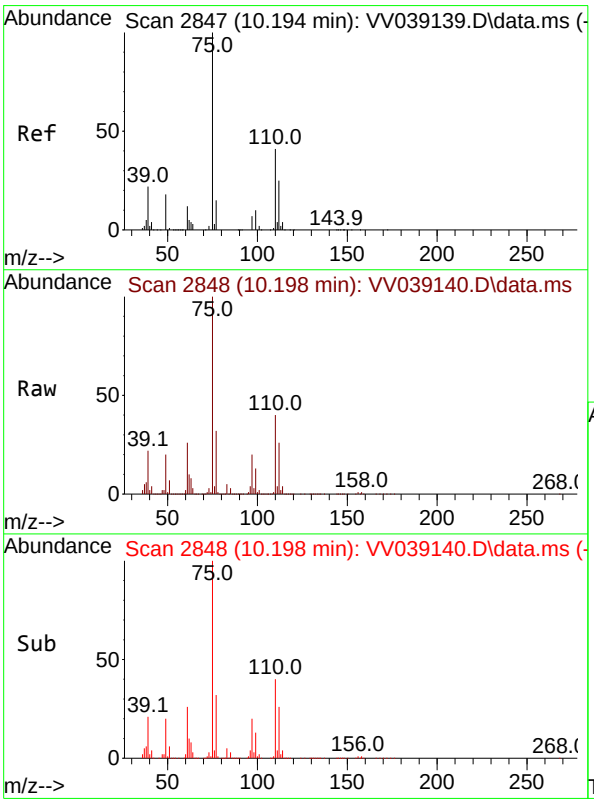
#75
1,1,2,2-Tetrachloroethane
Concen: 87.406 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 1453989

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.7
85	63.6	31.9	95.9

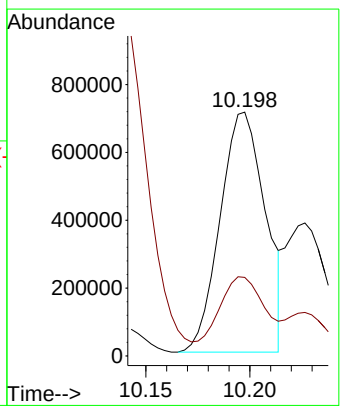


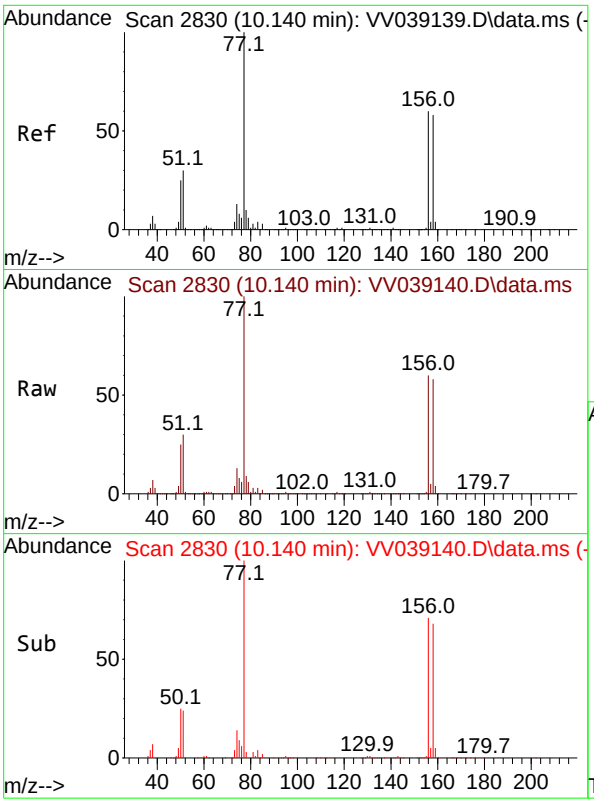


#76
1,2,3-Trichloropropane
Concen: 89.827 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1070580

Ion	Ratio	Lower	Upper
75	100		
77	25.0	11.3	33.8



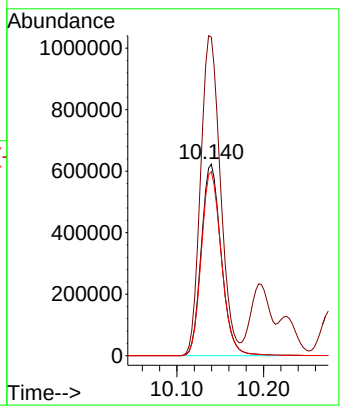


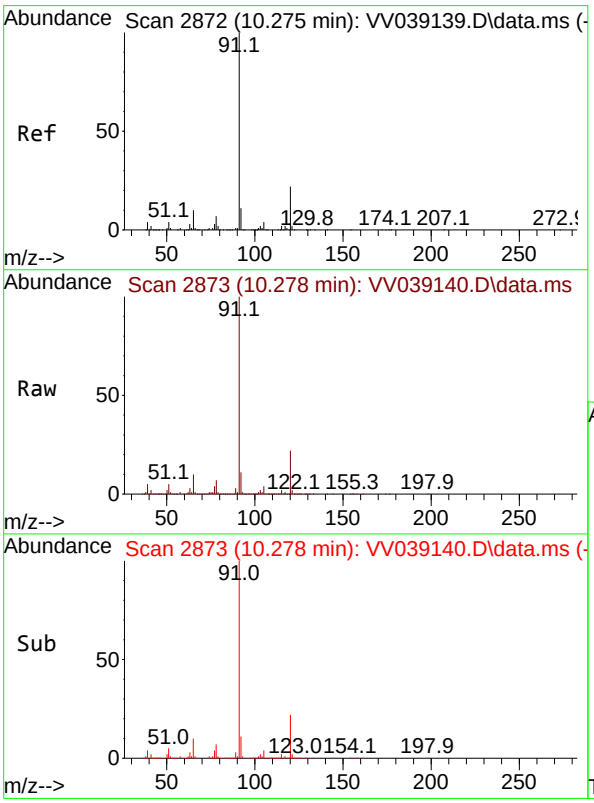
#77
Bromobenzene
Concen: 100.897 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 993863

Ion	Ratio	Lower	Upper
156	100		
77	166.1	83.4	250.1
158	96.7	48.8	146.4

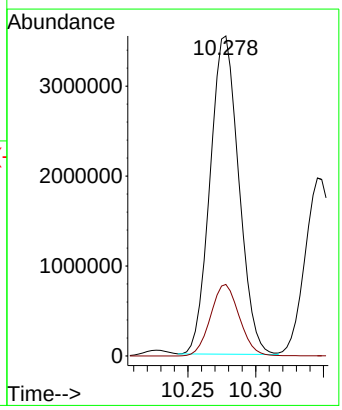


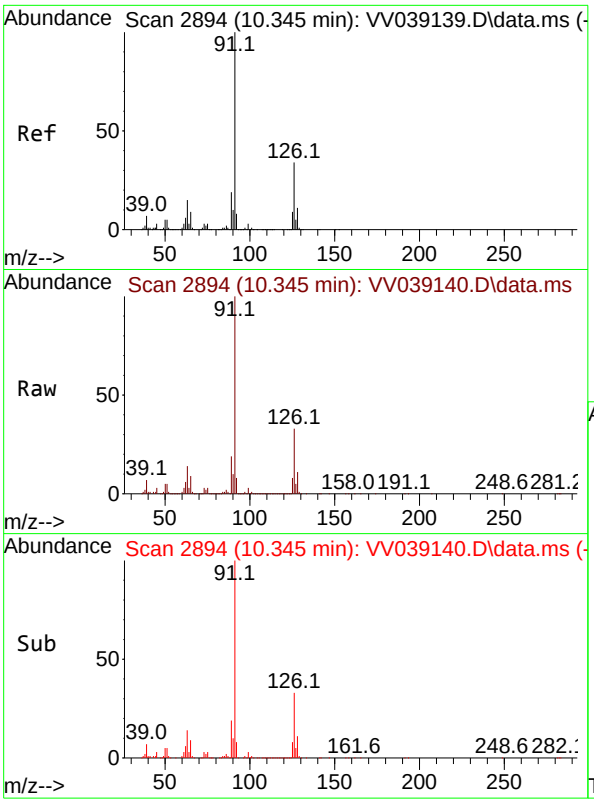


#78
n-propylbenzene
Concen: 112.910 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 91 Resp: 5220220

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3



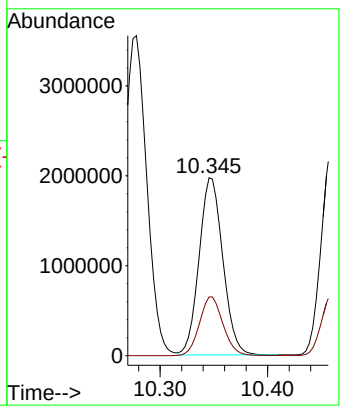


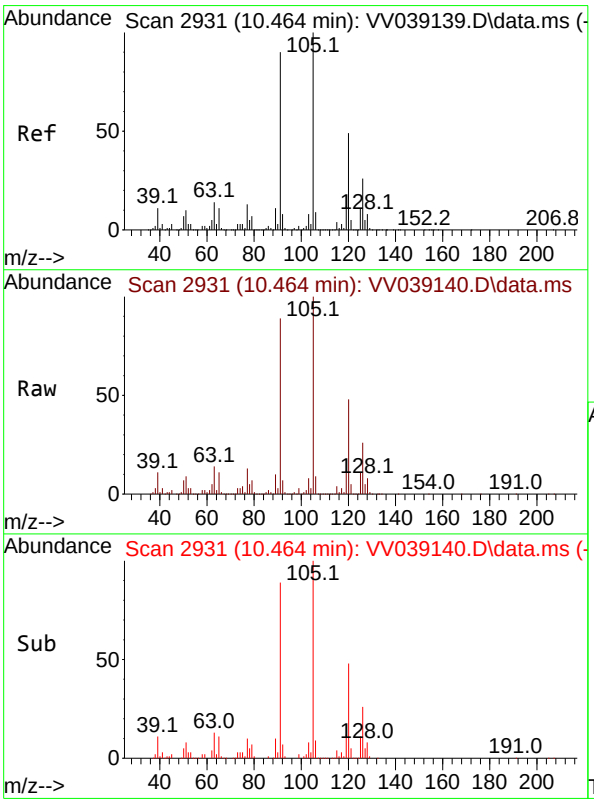
#79
2-Chlorotoluene
Concen: 109.093 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 3018051

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.0

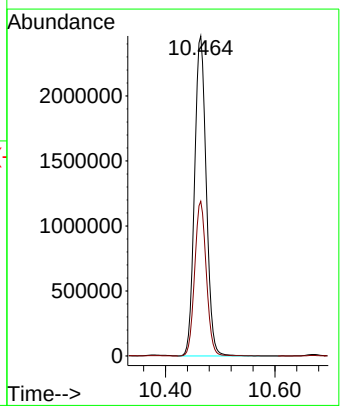


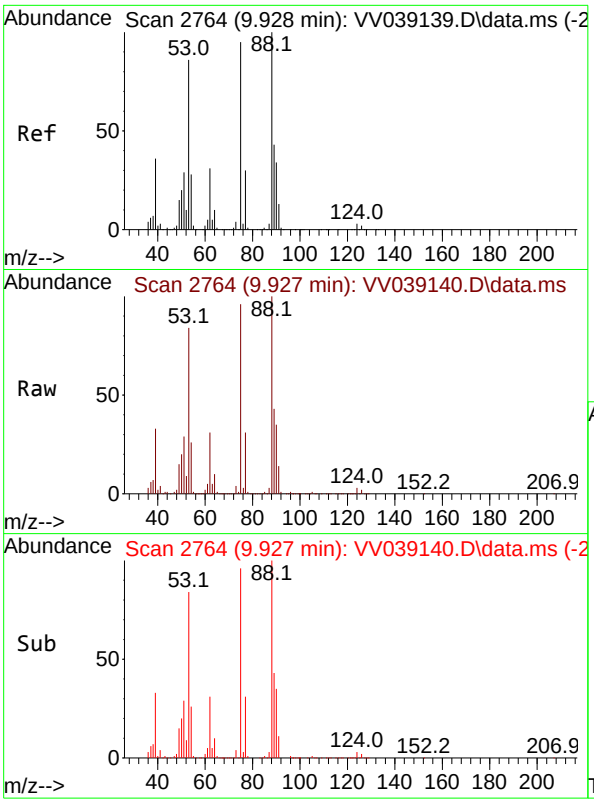


#80
1,3,5-Trimethylbenzene
Concen: 115.284 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:105 Resp: 3638030

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.3	72.8



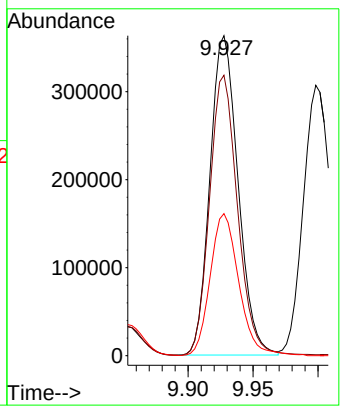


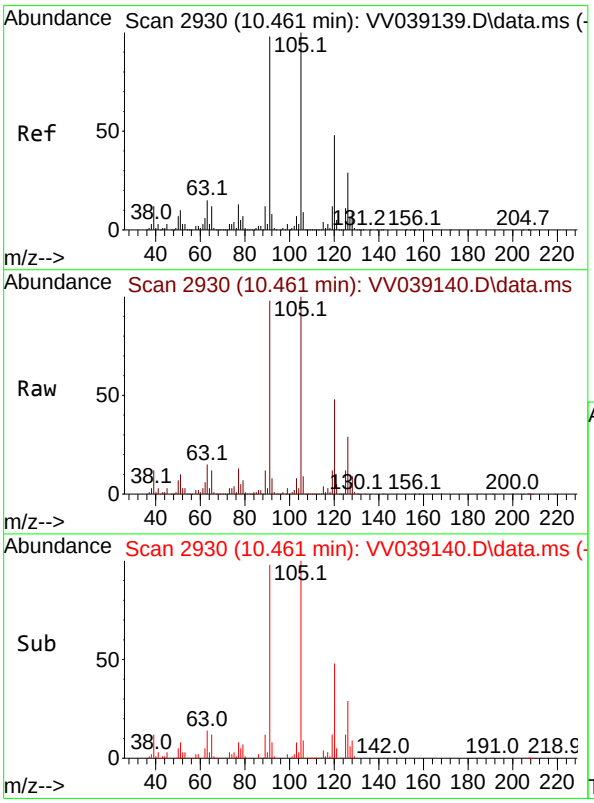
#81
trans-1,4-Dichloro-2-butene
Concen: 109.871 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 545452

Ion	Ratio	Lower	Upper
75	100		
53	87.6	72.5	108.7
89	45.5	37.2	55.8

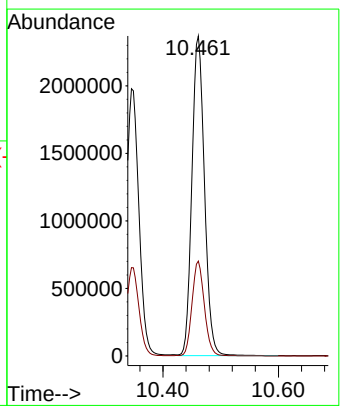


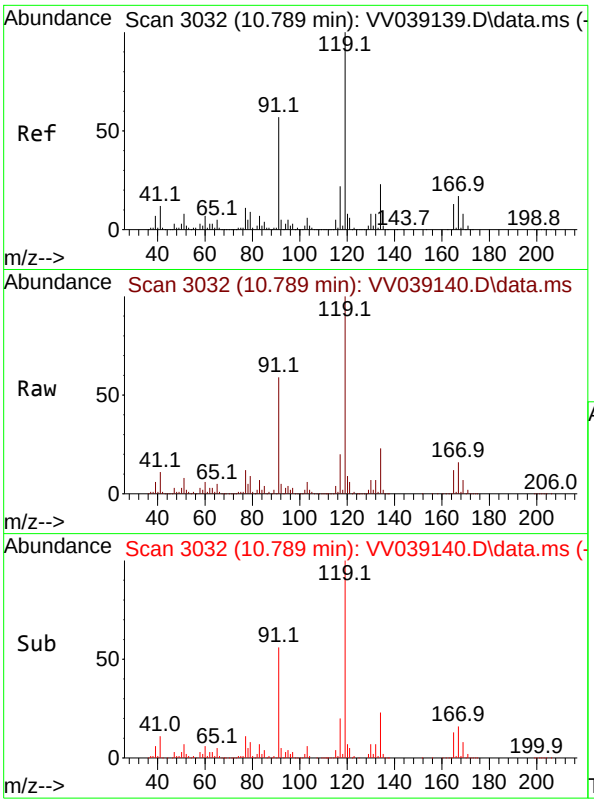


#82
4-Chlorotoluene
Concen: 111.396 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 91 Resp: 3573507

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.6



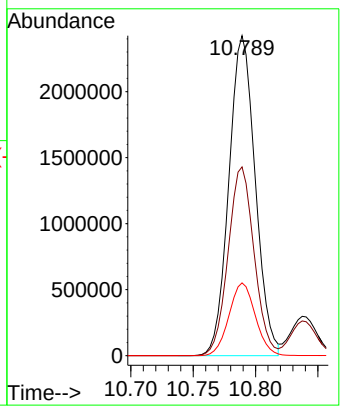


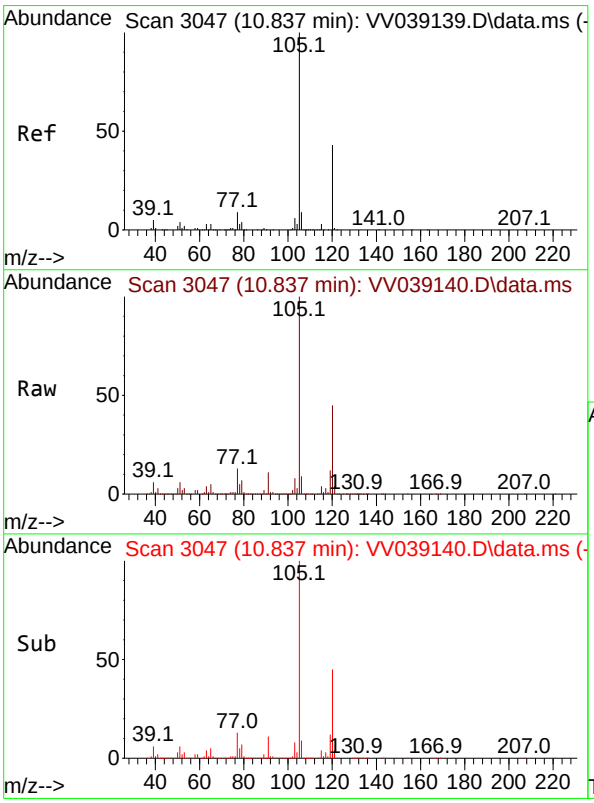
#83
tert-Butylbenzene
Concen: 113.541 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 3572813

Ion	Ratio	Lower	Upper
119	100		
91	58.2	28.5	85.6
134	22.8	11.5	34.4

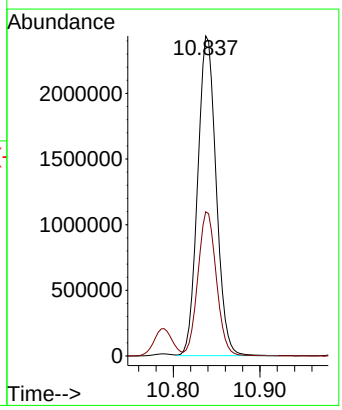


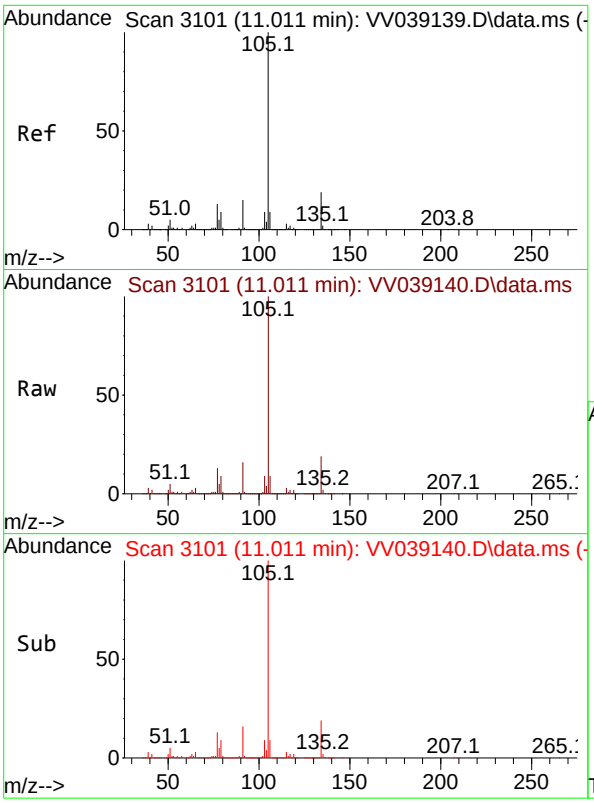


#84
1,2,4-Trimethylbenzene
Concen: 117.550 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:105 Resp: 3601355

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.4	67.2



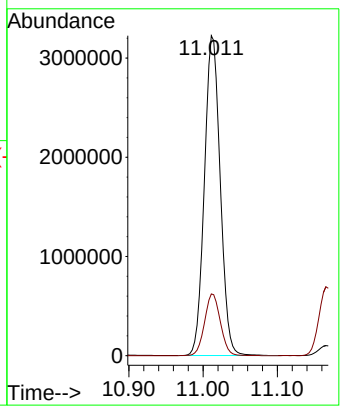


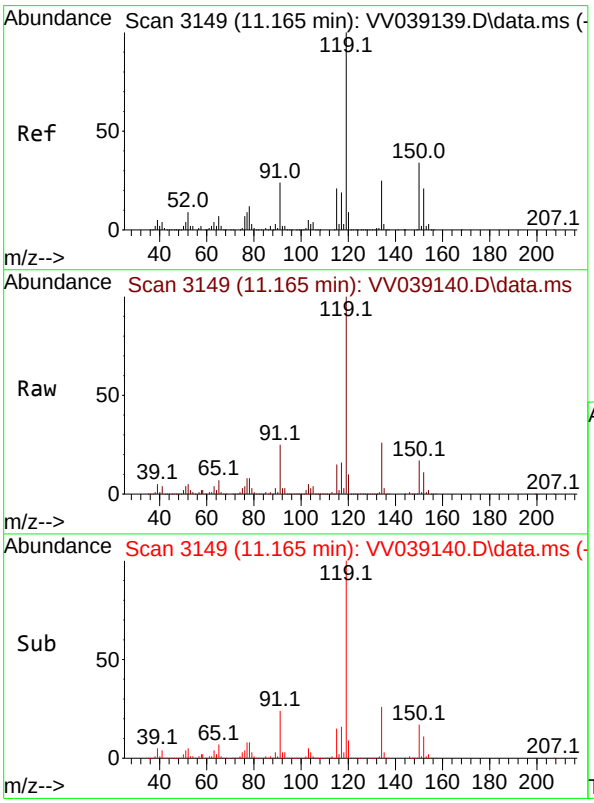
#85
sec-Butylbenzene
Concen: 114.135 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 4763689

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.6	28.8

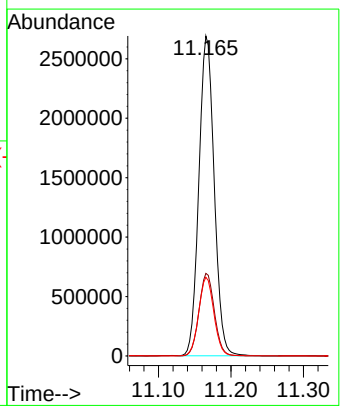


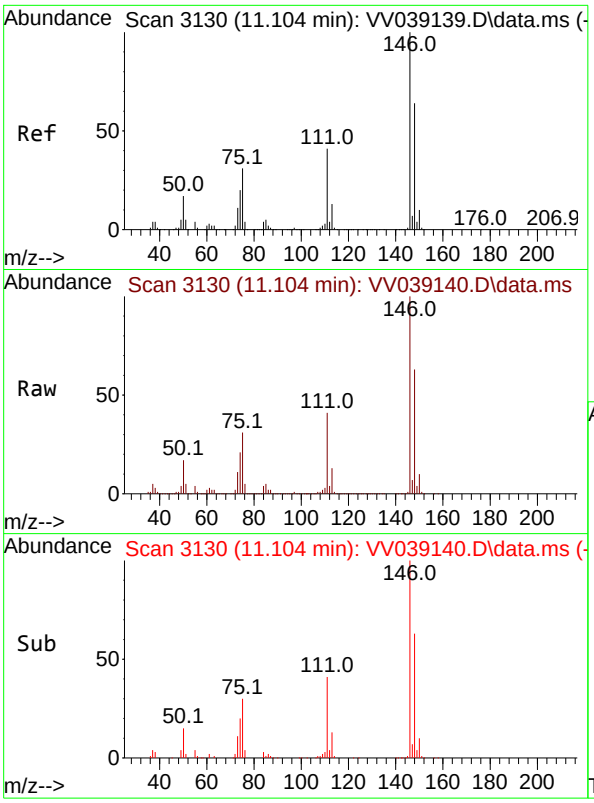


#86
p-Isopropyltoluene
Concen: 113.666 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:119 Resp: 3948556

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.7	38.0
91	24.4	12.0	36.1



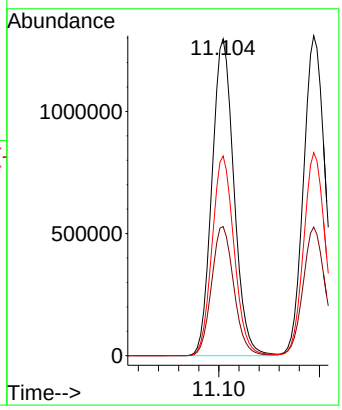


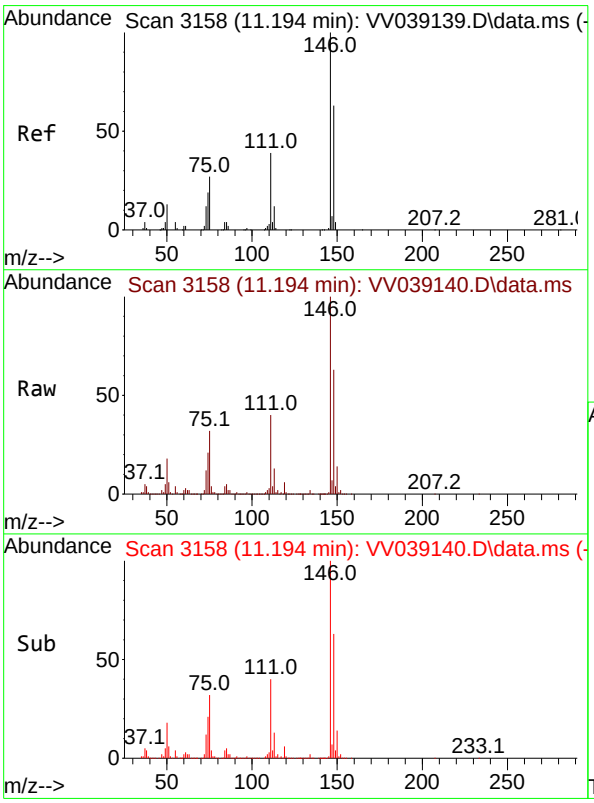
#87
1,3-Dichlorobenzene
Concen: 98.849 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1970594

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.9	62.8
148	63.3	31.8	95.3

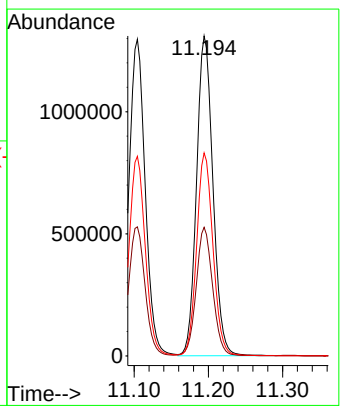


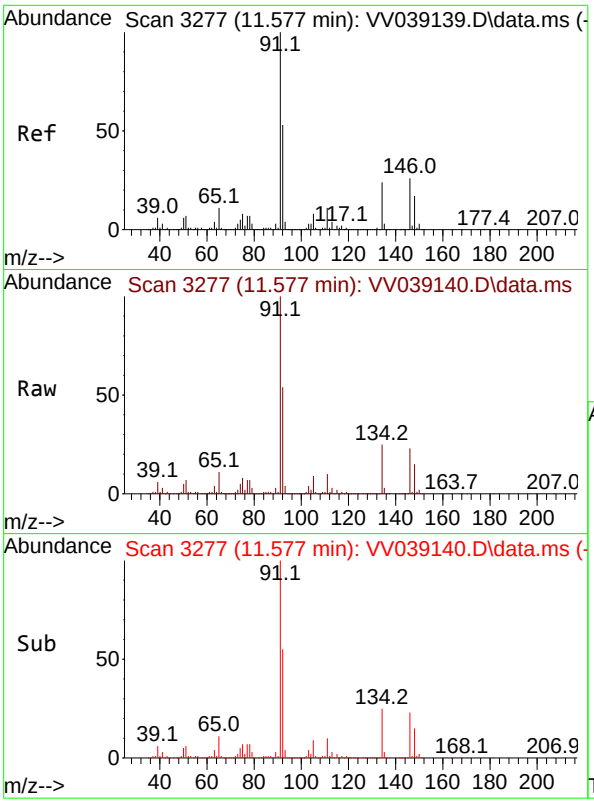


#88
1,4-Dichlorobenzene
Concen: 91.172 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:146 Resp: 2008676

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.3	60.8
148	63.3	31.4	94.2



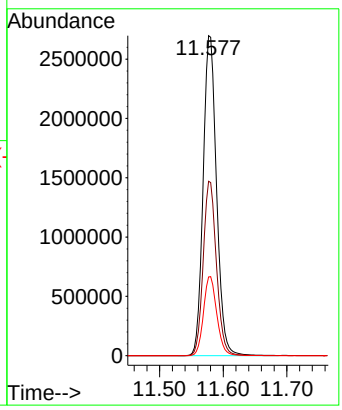


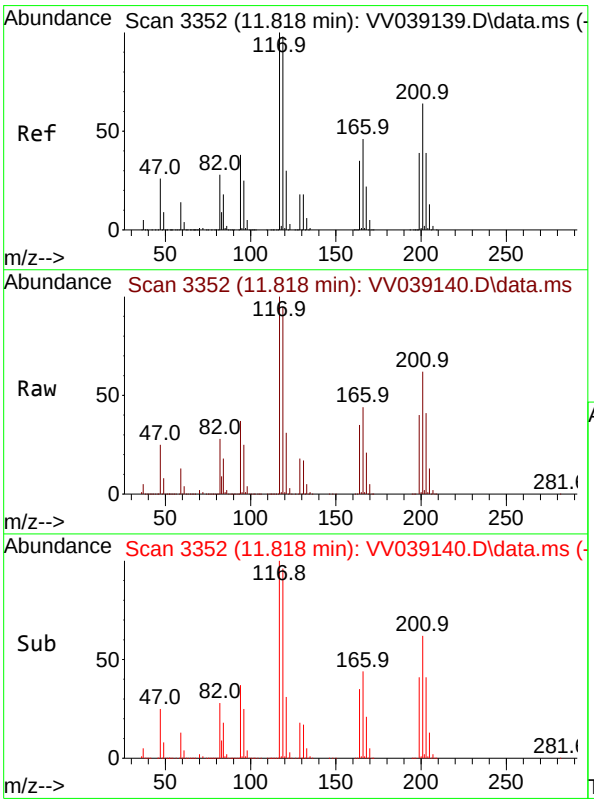
#89
n-Butylbenzene
Concen: 118.754 ug/l
RT: 11.577 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 3939852

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.6	79.8
134	24.6	12.1	36.3

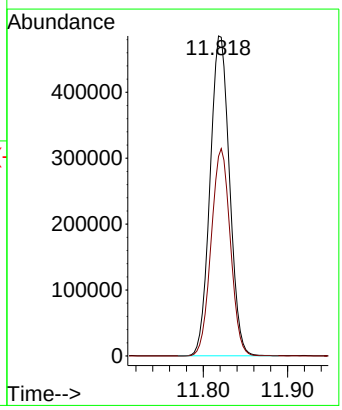


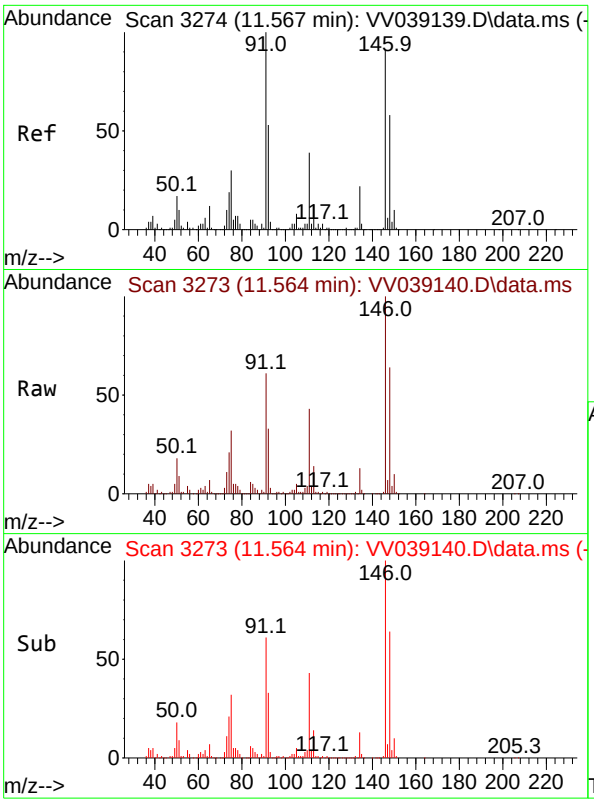


#90
Hexachloroethane
Concen: 90.794 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:117 Resp: 776688

Ion	Ratio	Lower	Upper
117	100		
201	64.0	32.3	96.8



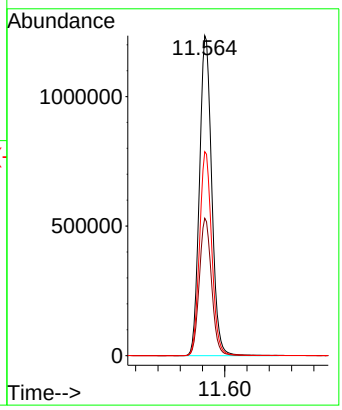


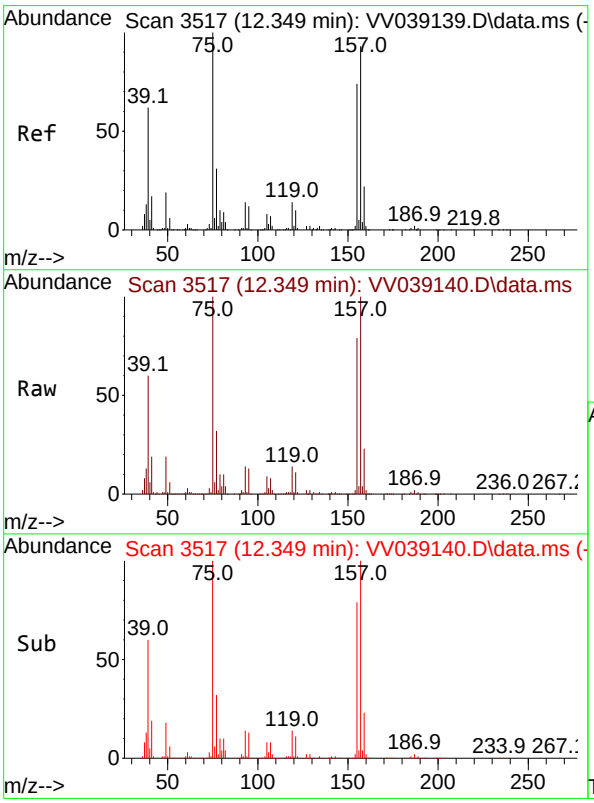
#91
1,2-Dichlorobenzene
Concen: 101.282 ug/l
RT: 11.564 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1886394

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.5	64.5
148	63.5	31.9	95.7

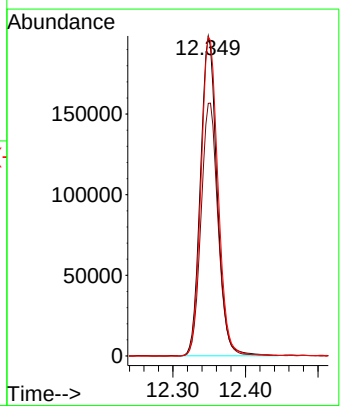


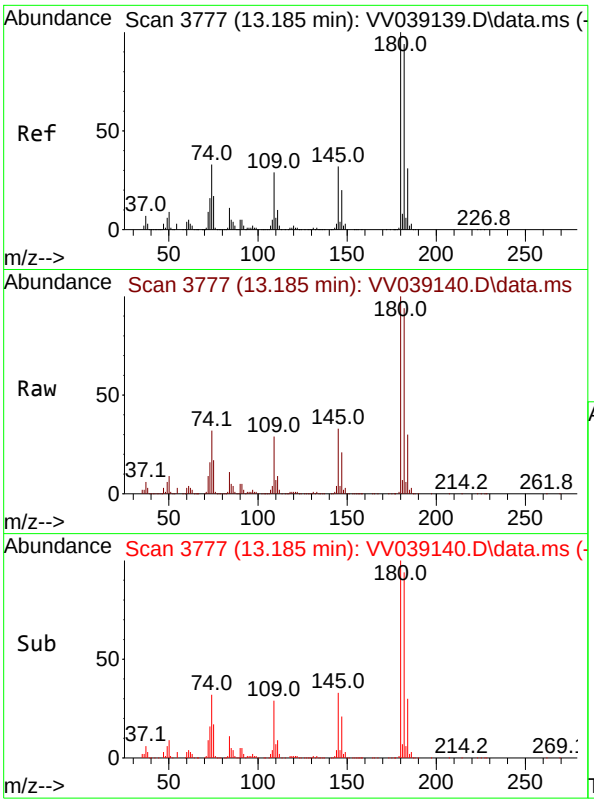


#92
1,2-Dibromo-3-Chloropropane
Concen: 100.015 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 316446

Ion	Ratio	Lower	Upper
75	100		
155	81.0	38.6	115.8
157	102.1	49.5	148.3



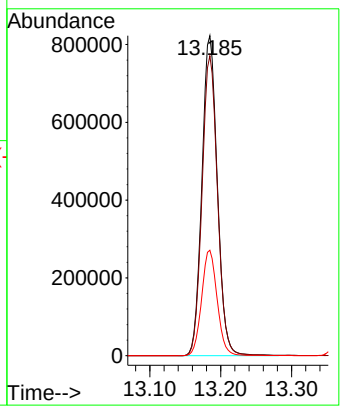


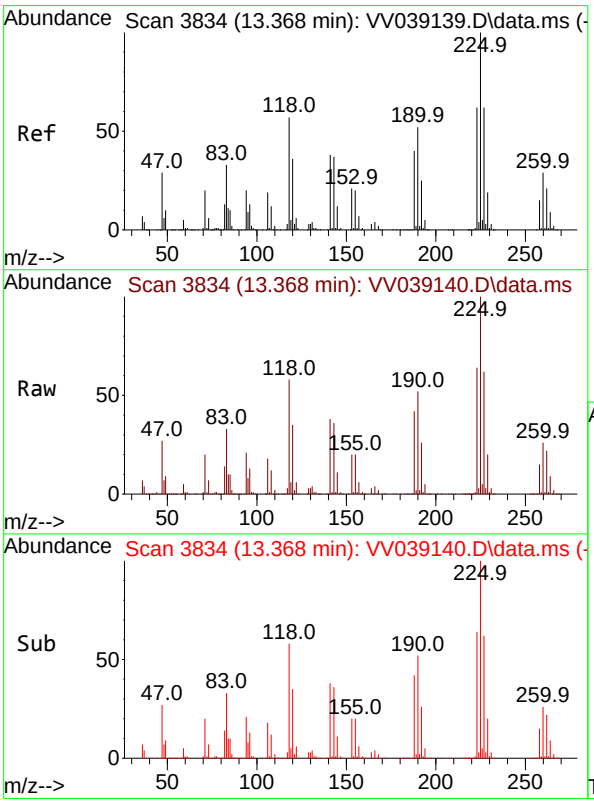
#93
1,2,4-Trichlorobenzene
Concen: 116.564 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 1244510

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.1	141.4
145	33.1	16.3	48.8

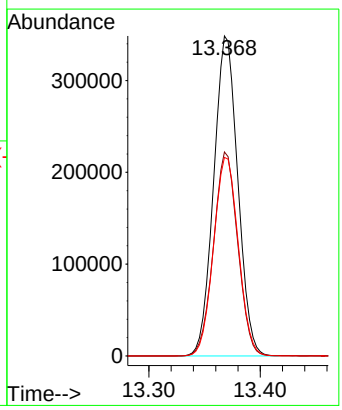


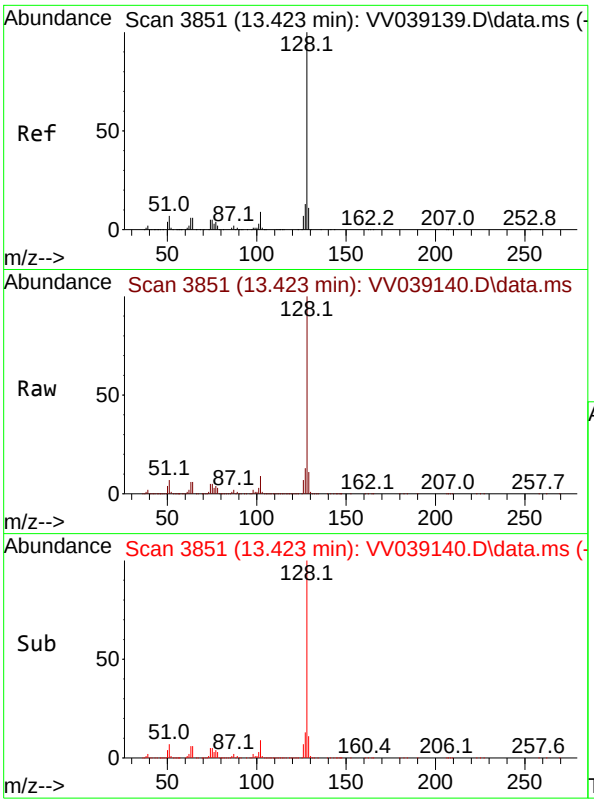


#94
Hexachlorobutadiene
Concen: 94.597 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:225 Resp: 524789

Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.6	94.7
227	63.7	31.8	95.4



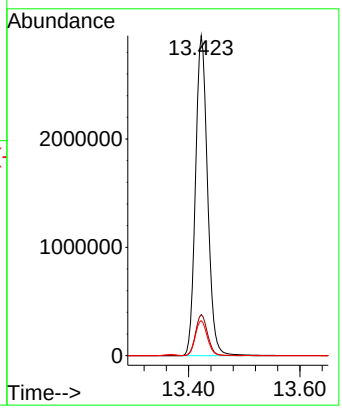


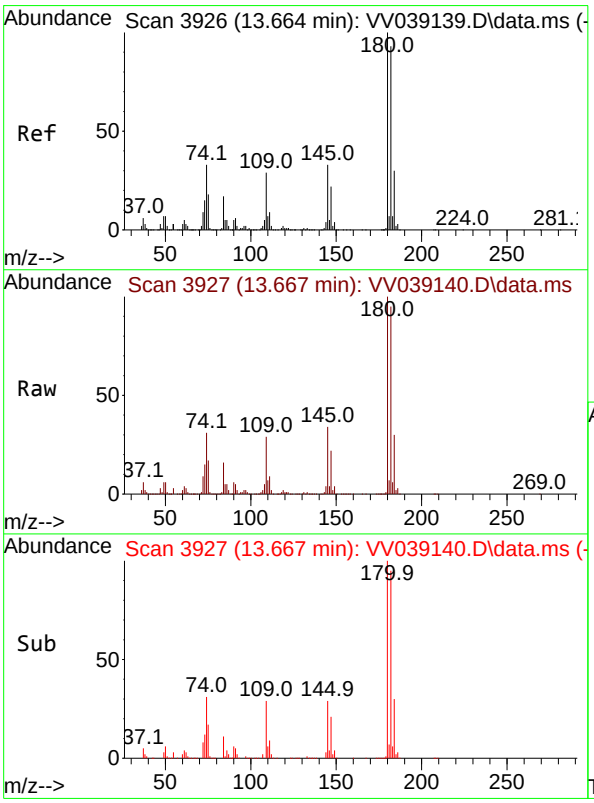
#95
Naphthalene
Concen: 129.371 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 4442612

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.6	13.0

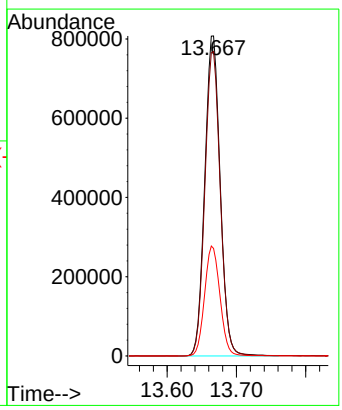




#96
1,2,3-Trichlorobenzene
Concen: 114.143 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:180 Resp: 1246406

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.9	140.8
145	34.2	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.596	168	492799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	835334	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	807740	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	425480	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.947	65	45267	6.347	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	12.700%#		
35) Dibromofluoromethane	4.503	113	37959	5.653	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	11.300%#		
50) Toluene-d8	7.239	98	117860	5.976	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	11.960%#		
62) 4-Bromofluorobenzene	10.008	95	39819	4.904	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	9.800%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	38031	4.875	ug/l	93
3) Chloromethane	1.230	50	43830	5.234	ug/l	97
4) Vinyl Chloride	1.298	62	45941	5.124	ug/l	99
5) Bromomethane	1.494	94	32301	5.715	ug/l	100
6) Chloroethane	1.558	64	29857	4.506	ug/l	93
7) Trichlorofluoromethane	1.725	101	67248	5.181	ug/l	100
8) Diethyl Ether	1.918	74	25304	5.251	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.082	101	39608	5.128	ug/l	99
10) Methyl Iodide	2.195	142	31463	4.278	ug/l	95
11) Tert butyl alcohol	2.571	59	40994	27.195	ug/l	97
12) 1,1-Dichloroethene	2.082	96	38859	5.230	ug/l	96
13) Acrolein	2.015	56	6095	23.302	ug/l	98
14) Allyl chloride	2.355	41	70683	5.326	ug/l	96
15) Acrylonitrile	2.677	53	128729	26.639	ug/l	99
16) Acetone	2.121	43	140190	26.199	ug/l	98
17) Carbon Disulfide	2.253	76	121350	5.340	ug/l	99
18) Methyl Acetate	2.381	43	54053	5.115	ug/l	97
19) Methyl tert-butyl Ether	2.712	73	125944	5.319	ug/l	96
20) Methylene Chloride	2.455	84	54859	5.252	ug/l	96
21) trans-1,2-Dichloroethene	2.703	96	41151	5.202	ug/l	98
22) Diisopropyl ether	3.217	45	126181	4.969	ug/l #	64
23) Vinyl Acetate	3.191	43	570043	25.661	ug/l	99
24) 1,1-Dichloroethane	3.117	63	81764	5.265	ug/l	96
25) 2-Butanone	3.879	43	140360	25.002	ug/l	99
26) 2,2-Dichloropropane	3.812	77	68656	5.006	ug/l	99
27) cis-1,2-Dichloroethene	3.825	96	40984	4.698	ug/l	88
28) Bromochloromethane	4.153	49	25874	3.774	ug/l	97
29) Tetrahydrofuran	4.243	42	86190	24.110	ug/l	94
30) Chloroform	4.281	83	86066	5.308	ug/l	99
31) Cyclohexane	4.580	56	69326	5.450	ug/l #	94
32) 1,1,1-Trichloroethane	4.513	97	74539	5.310	ug/l	95
36) 1,1-Dichloropropene	4.744	75	44786	4.379	ug/l	99
37) Ethyl Acetate	3.995	43	60285	4.805	ug/l #	73
38) Carbon Tetrachloride	4.732	117	61498	4.992	ug/l	96
39) Methylcyclohexane	6.047	83	56805	4.633	ug/l	92
40) Benzene	5.014	78	163948	4.959	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.188	41	17959	4.995	ug/l	#	86
42) 1,2-Dichloroethane	5.047	62	57857	4.994	ug/l		96
43) Isopropyl Acetate	5.204	43	77935	4.509	ug/l	#	93
44) Trichloroethene	5.838	130	38395	5.033	ug/l		89
45) 1,2-Dichloropropane	6.098	63	39327	4.786	ug/l		100
46) Dibromomethane	6.233	93	31863	5.066	ug/l		98
47) Bromodichloromethane	6.429	83	64039	4.925	ug/l		95
48) Methyl methacrylate	6.313	41	29705	3.757	ug/l		93
49) 1,4-Dioxane	6.307	88	8999	72.413	ug/l	#	79
51) 4-Methyl-2-Pentanone	7.153	43	255889	23.155	ug/l		99
52) Toluene	7.313	92	94414	4.925	ug/l		99
53) t-1,3-Dichloropropene	7.583	75	53878	4.755	ug/l		94
54) cis-1,3-Dichloropropene	6.957	75	58800	4.700	ug/l		98
55) 1,1,2-Trichloroethane	7.764	97	43788	5.094	ug/l		99
56) Ethyl methacrylate	7.722	69	42598	4.173	ug/l		97
57) 1,3-Dichloropropane	7.937	76	63818	4.705	ug/l		99
58) 2-Chloroethyl Vinyl ether	6.818	63	81984	23.077	ug/l		100
59) 2-Hexanone	8.069	43	179185	22.071	ug/l		88
60) Dibromochloromethane	8.169	129	49953	5.100	ug/l		96
61) 1,2-Dibromoethane	8.278	107	44729	5.088	ug/l		98
64) Tetrachloroethene	7.899	164	34795	5.143	ug/l		98
65) Chlorobenzene	8.805	112	114424	5.086	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.899	131	40690	5.005	ug/l		95
67) Ethyl Benzene	8.940	91	157790	4.633	ug/l		97
68) m/p-Xylenes	9.066	106	115177	8.762	ug/l		98
69) o-Xylene	9.471	106	51281	4.406	ug/l		100
70) Styrene	9.490	104	83873	4.836	ug/l		96
71) Bromoform	9.657	173	31133	4.903	ug/l	#	97
73) Isopropylbenzene	9.857	105	140251	4.545	ug/l		99
74) N-amyl acetate	9.731	43	54436	4.422	ug/l		98
75) 1,1,2,2-Tetrachloroethane	10.165	83	71656	5.299	ug/l		99
76) 1,2,3-Trichloropropane	10.201	75	51079m	5.273	ug/l		
77) Bromobenzene	10.146	156	39428	4.924	ug/l		95
78) n-propylbenzene	10.281	91	168794	4.492	ug/l		99
79) 2-Chlorotoluene	10.349	91	110002	4.892	ug/l		99
80) 1,3,5-Trimethylbenzene	10.468	105	114749	4.474	ug/l		98
81) trans-1,4-Dichloro-2-b...	9.934	75	18154	4.499	ug/l		90
82) 4-Chlorotoluene	10.468	91	122429	4.695	ug/l		99
83) tert-Butylbenzene	10.789	119	117310	4.586	ug/l		99
84) 1,2,4-Trimethylbenzene	10.841	105	108157	4.343	ug/l		96
85) sec-Butylbenzene	11.014	105	153526	4.525	ug/l		99
86) p-Isopropyltoluene	11.169	119	127377	4.511	ug/l		98
87) 1,3-Dichlorobenzene	11.111	146	82673	5.102	ug/l		98
88) 1,4-Dichlorobenzene	11.198	146	91001	5.082	ug/l		94
89) n-Butylbenzene	11.583	91	119822	4.443	ug/l		96
90) Hexachloroethane	11.818	117	35762	5.143	ug/l		95
91) 1,2-Dichlorobenzene	11.570	146	76477	5.052	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.358	75	14163	5.211	ug/l		92
93) 1,2,4-Trichlorobenzene	13.191	180	39775	4.583	ug/l		100
94) Hexachlorobutadiene	13.368	225	22549	5.001	ug/l		98
95) Naphthalene	13.429	128	113395	4.062	ug/l		99
96) 1,2,3-Trichlorobenzene	13.670	180	38315	4.317	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

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

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

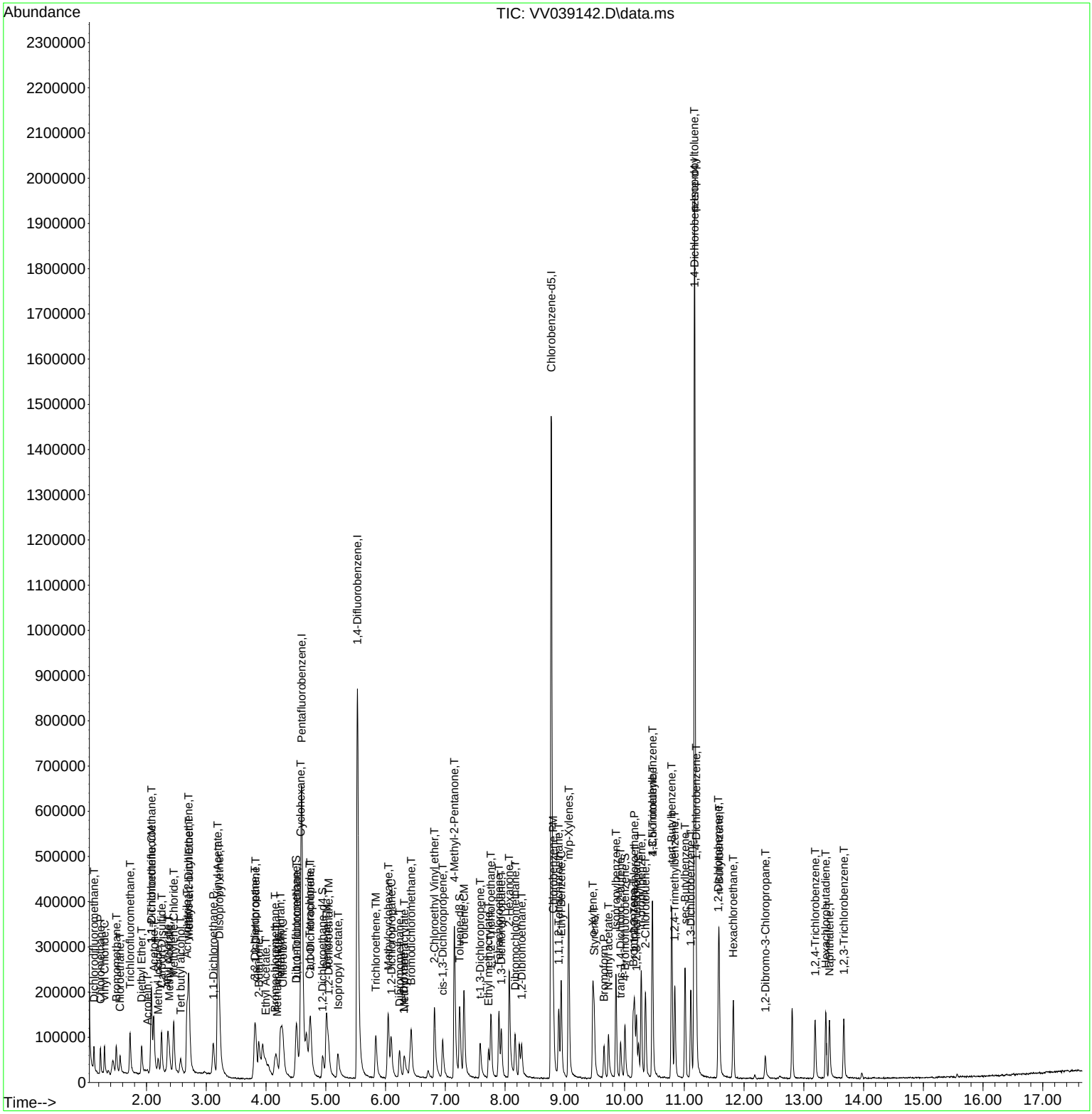
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

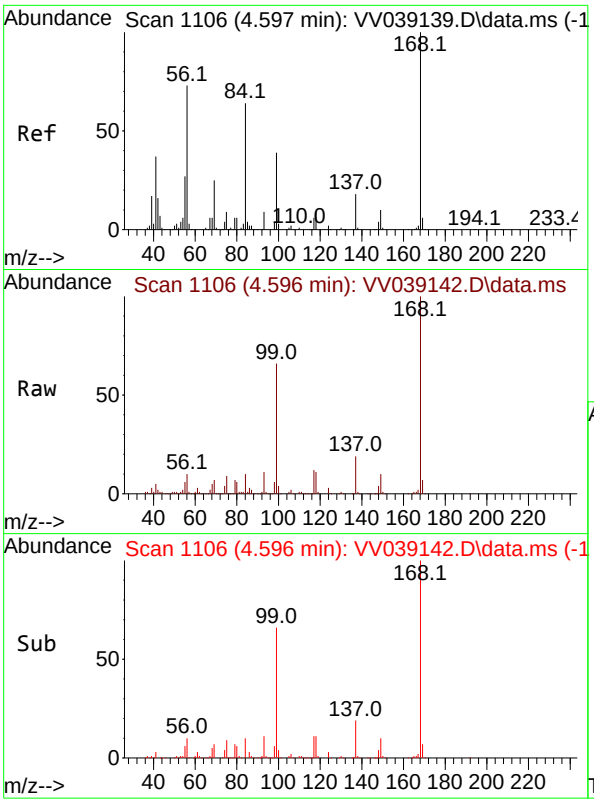
Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

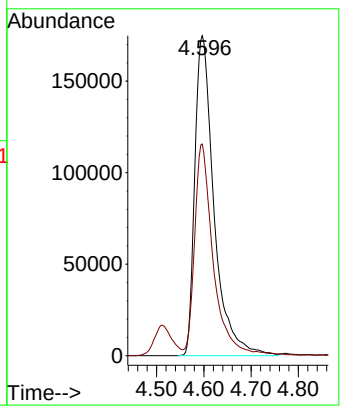




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 1
Delta R.T. -0.001 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:168 Resp: 49279

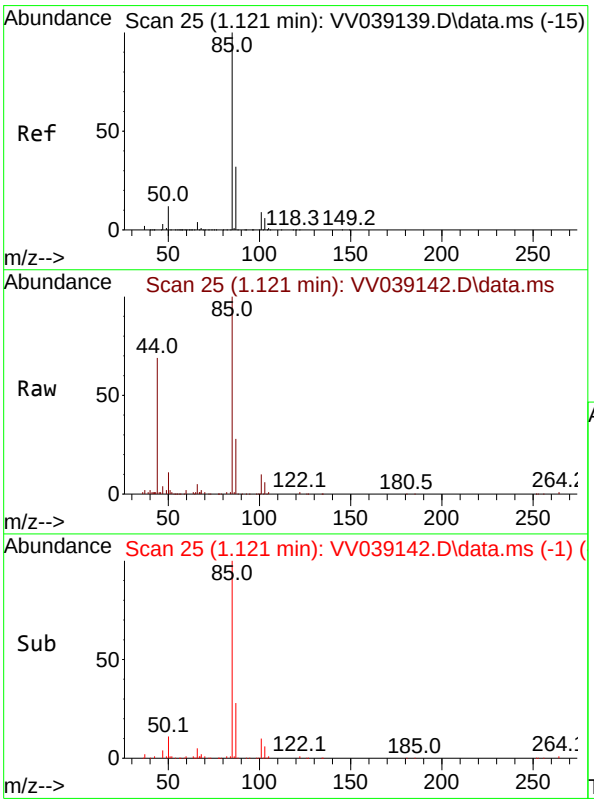
Ion	Ratio	Lower	Upper
168	100		
99	65.6	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

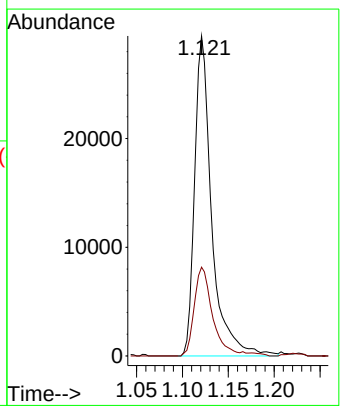
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

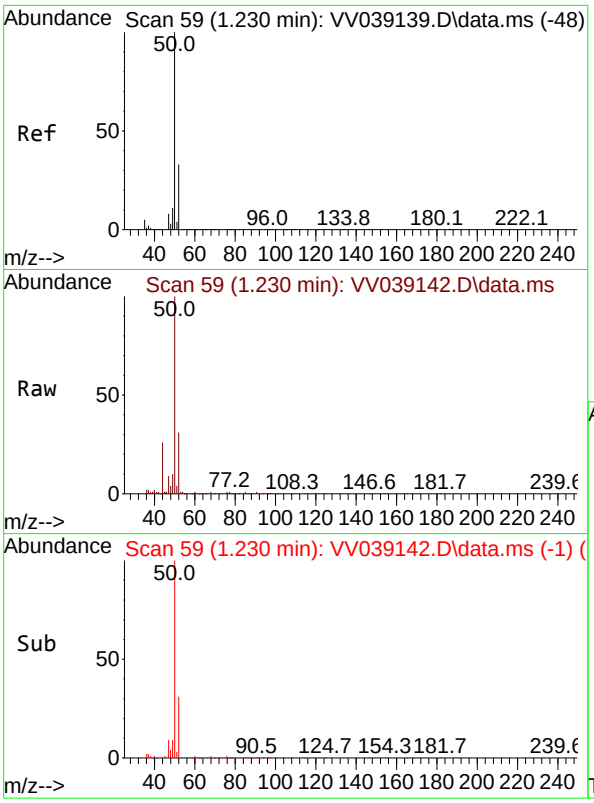


#2
Dichlorodifluoromethane
Concen: 4.875 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 85 Resp: 38031

Ion	Ratio	Lower	Upper
85	100		
87	27.7	16.0	47.9

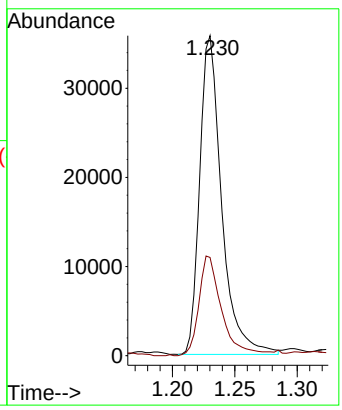




#3
Chloromethane
Concen: 5.234 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 50 Resp: 4383

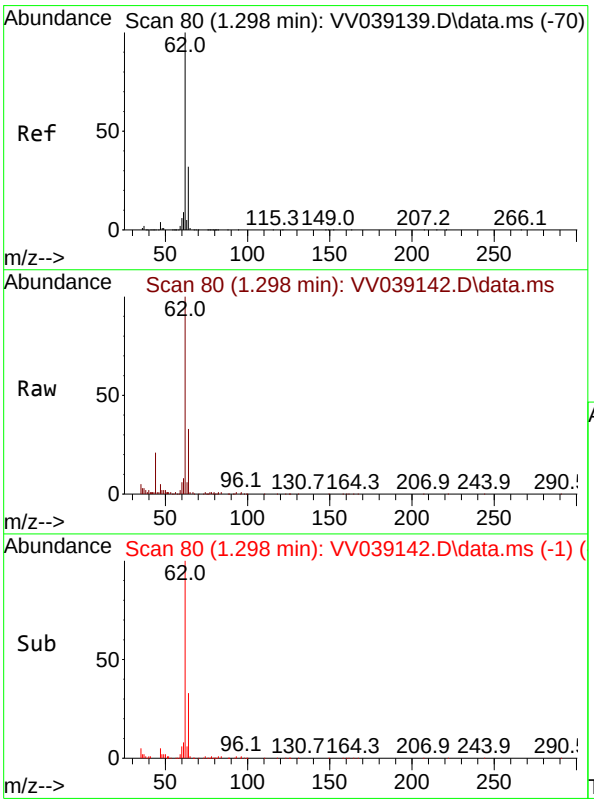
Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.0	39.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

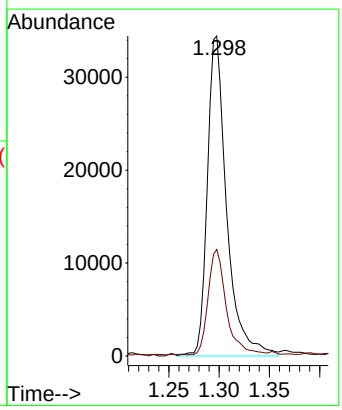
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

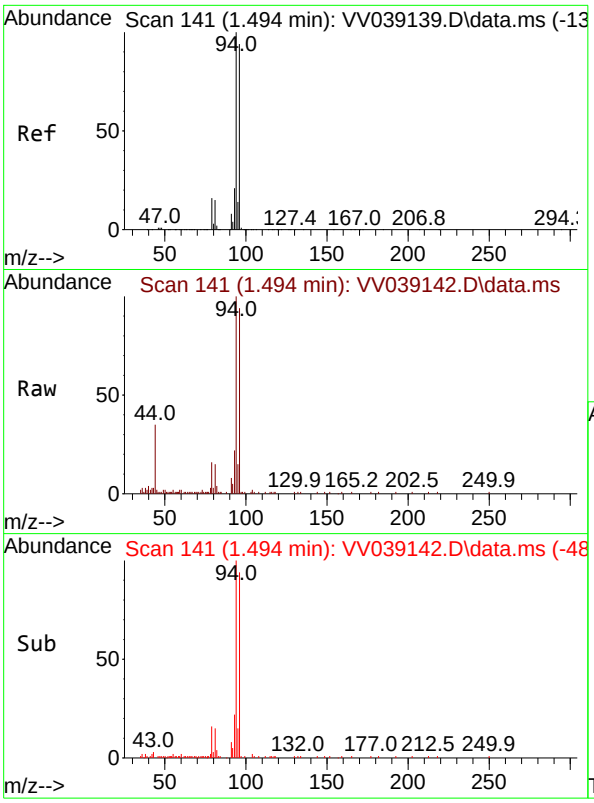


#4
Vinyl Chloride
Concen: 5.124 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 45941

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.6	38.4

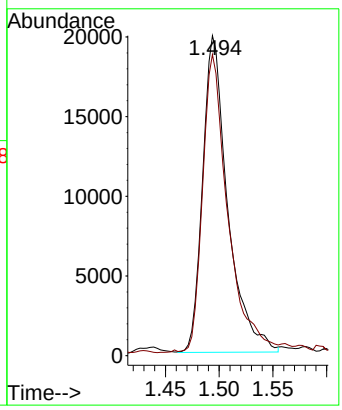




#5
Bromomethane
Concen: 5.715 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 94 Resp: 3230

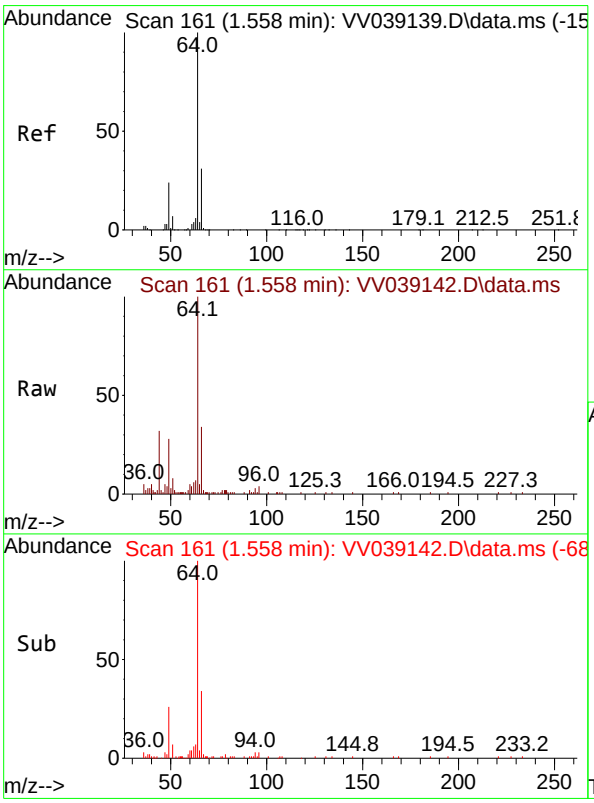
Ion	Ratio	Lower	Upper
94	100		
96	93.8	74.9	112.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

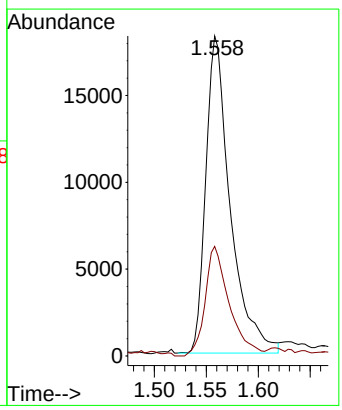
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

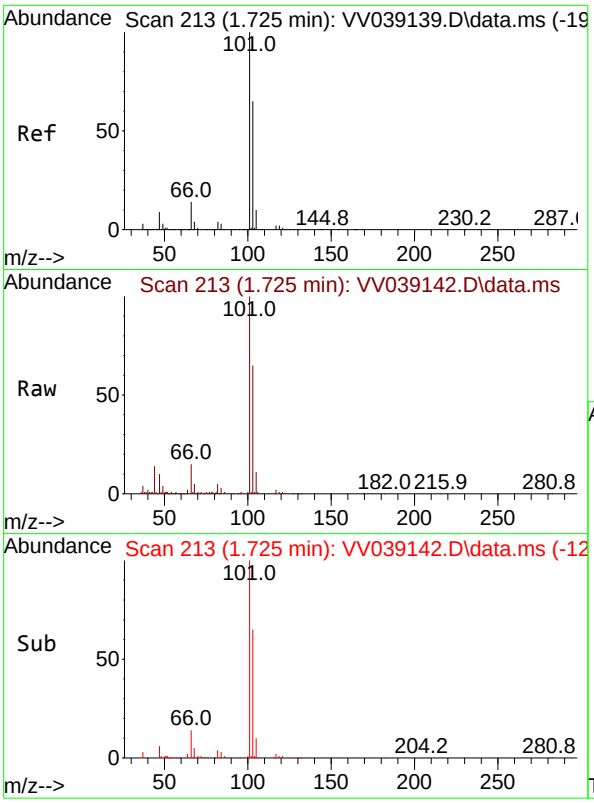


#6
Chloroethane
Concen: 4.506 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 64 Resp: 29857

Ion	Ratio	Lower	Upper
64	100		
66	34.6	24.6	36.8

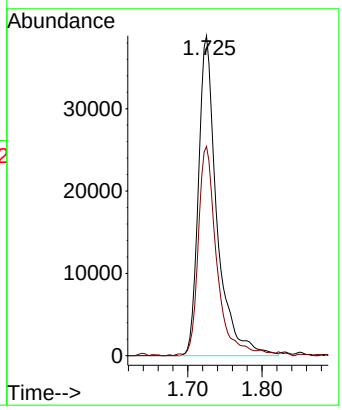




#7
Trichlorofluoromethane
Concen: 5.181 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:101 Resp: 6724

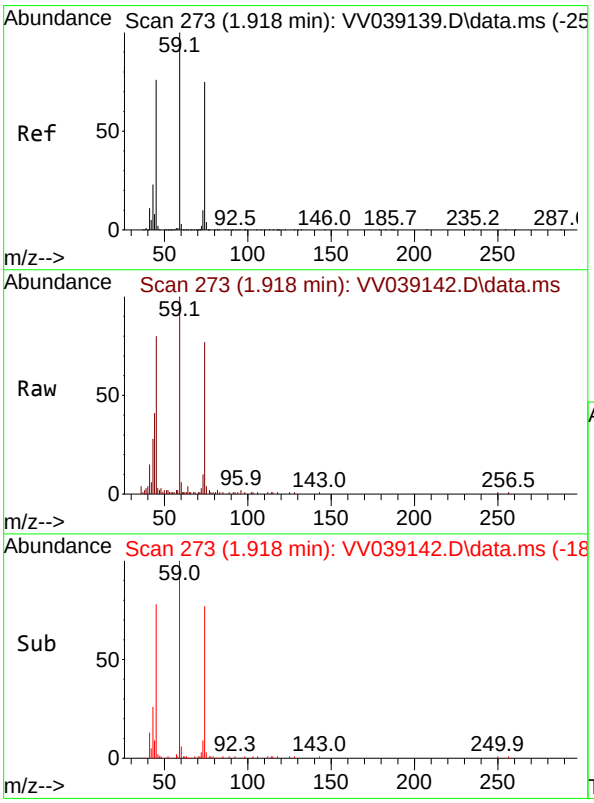
Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.0	78.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

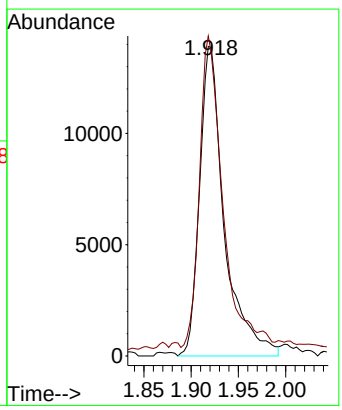
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

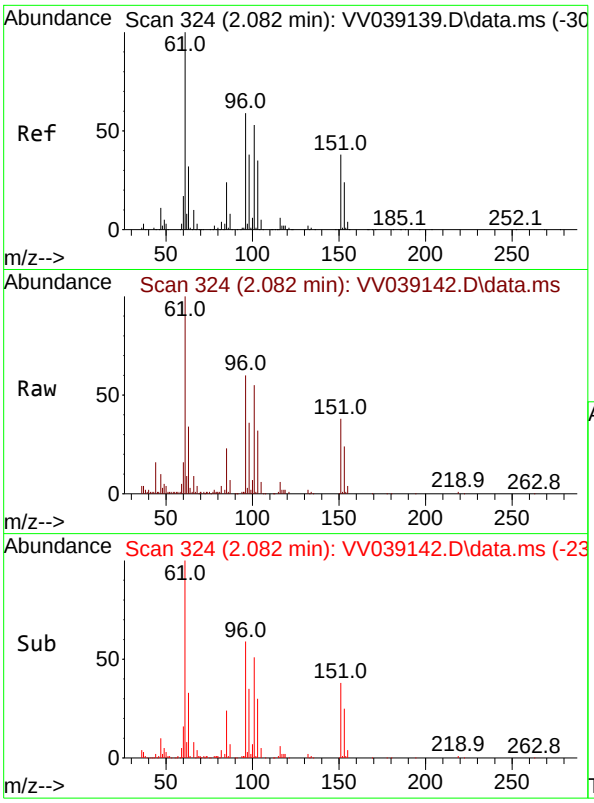


#8
Diethyl Ether
Concen: 5.251 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 74 Resp: 25304

Ion	Ratio	Lower	Upper
74	100		
45	94.7	49.6	148.8

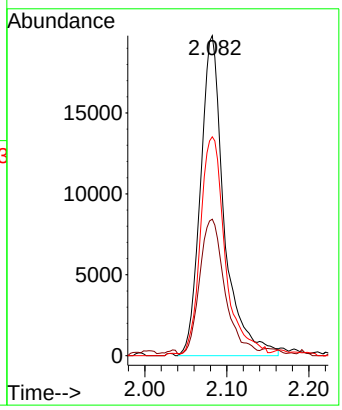




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.128 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:101 Resp: 3960

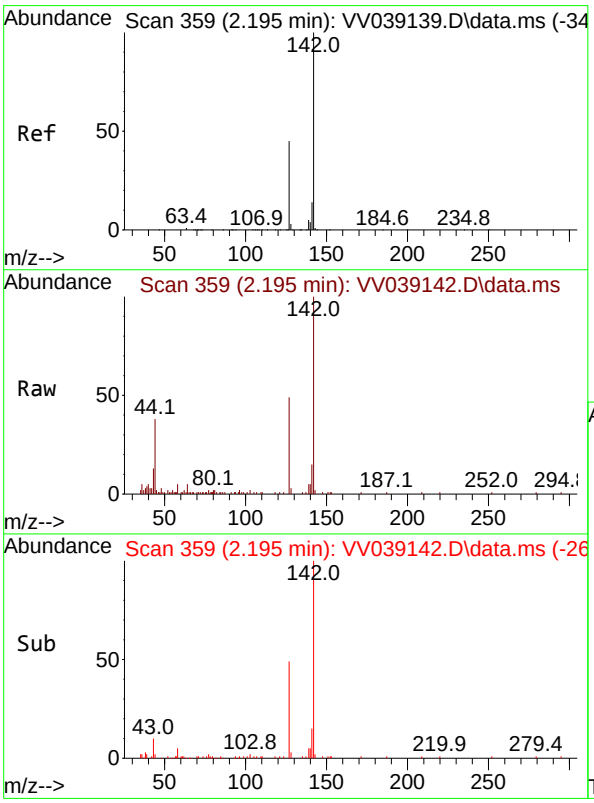
Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.2	54.2
151	69.9	56.3	84.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

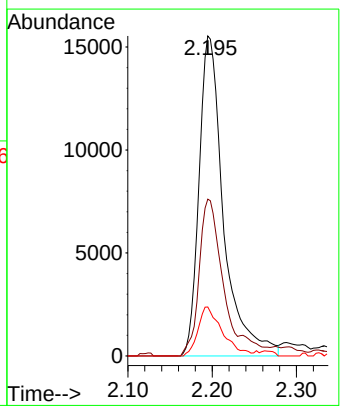
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

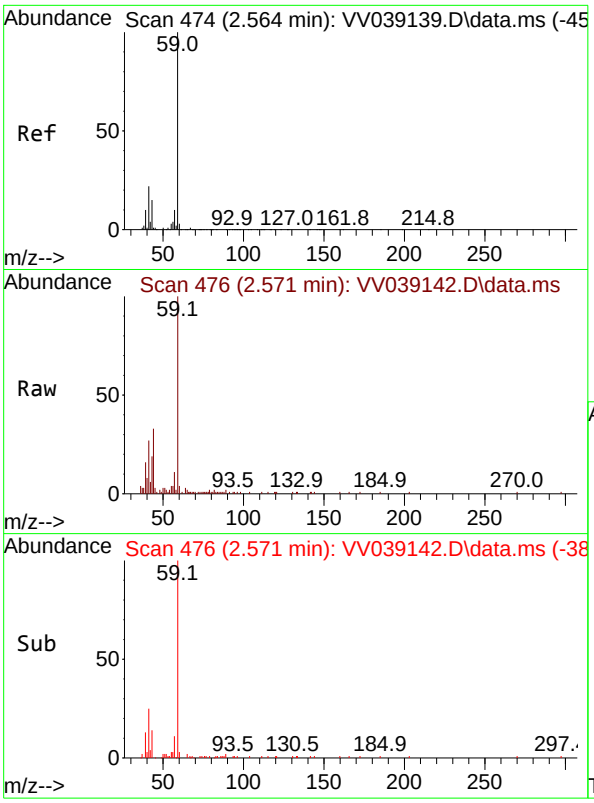


#10
Methyl Iodide
Concen: 4.278 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:142 Resp: 31463

Ion	Ratio	Lower	Upper
142	100		
127	49.4	36.3	54.5
141	15.2	11.2	16.8

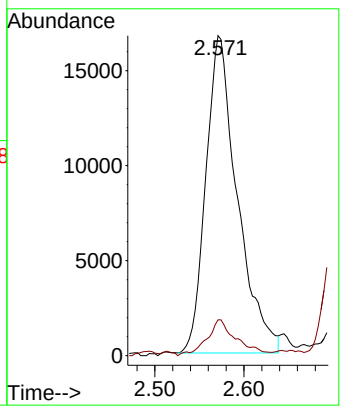




#11
Tert butyl alcohol
Concen: 27.195 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 59 Resp: 4099

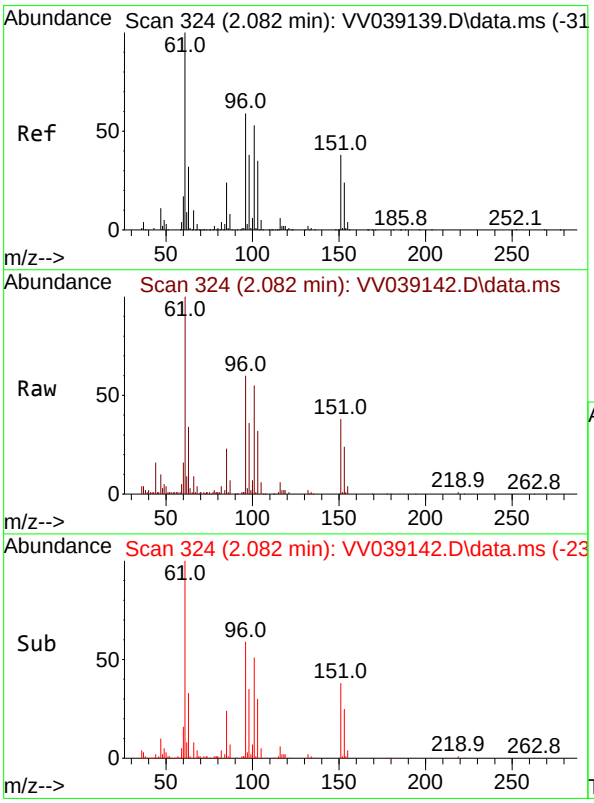
Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.8	11.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

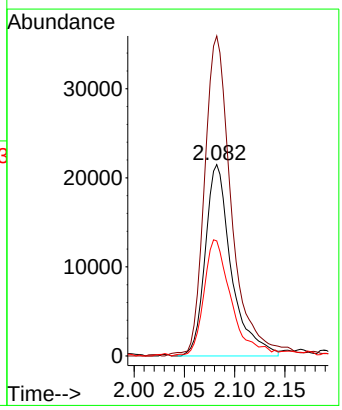
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

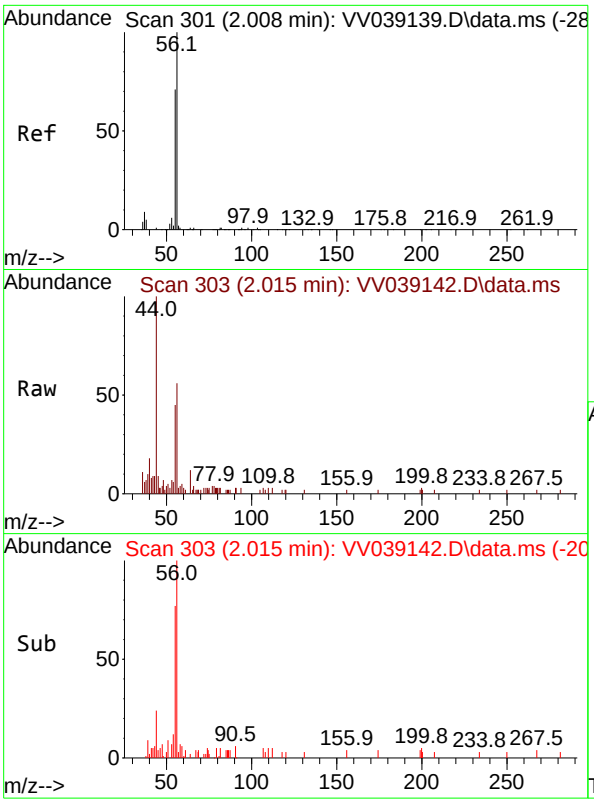


#12
1,1-Dichloroethene
Concen: 5.230 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 38859

Ion	Ratio	Lower	Upper
96	100		
61	165.4	136.0	204.0
98	59.2	51.0	76.6

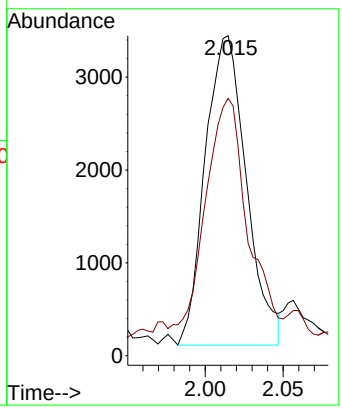




#13
Acrolein
Concen: 23.302 ug/l
RT: 2.015 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 56 Resp: 609

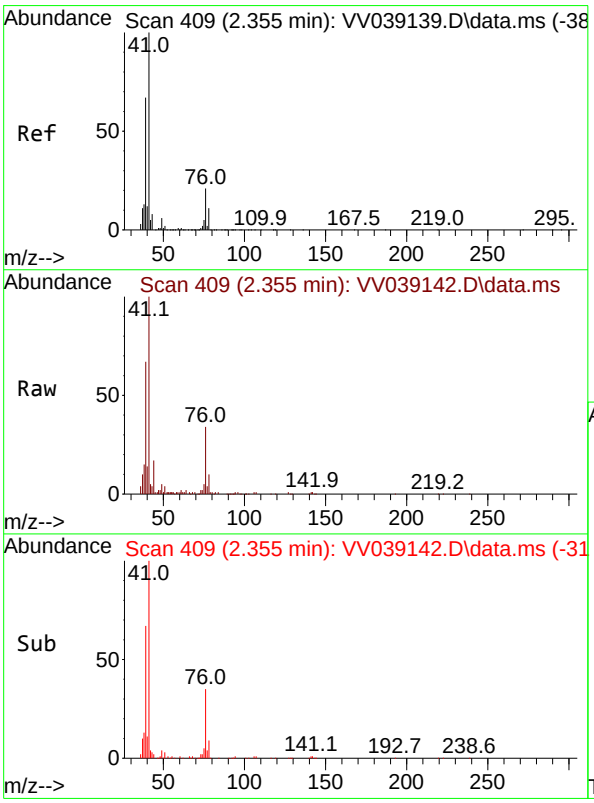
Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.2	84.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

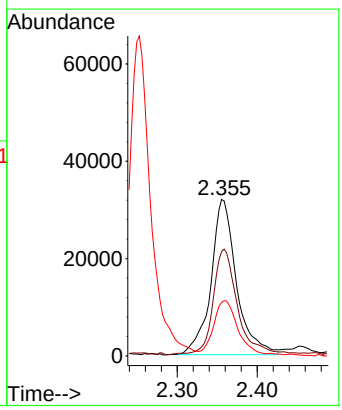
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

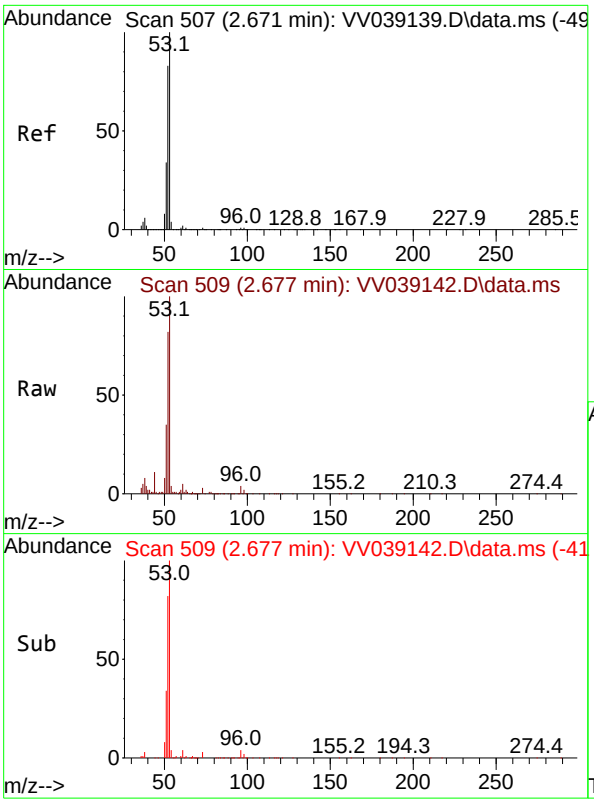


#14
Allyl chloride
Concen: 5.326 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 70683

Ion	Ratio	Lower	Upper
41	100		
39	65.2	51.0	76.6
76	31.4	28.2	42.4

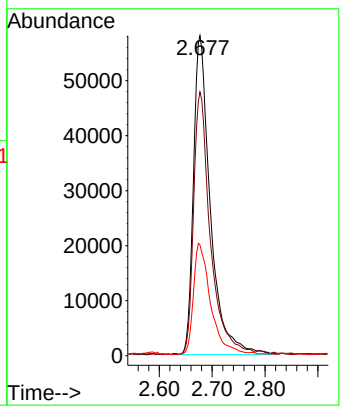




#15
Acrylonitrile
Concen: 26.639 ug/l
RT: 2.677 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 53 Resp: 12872

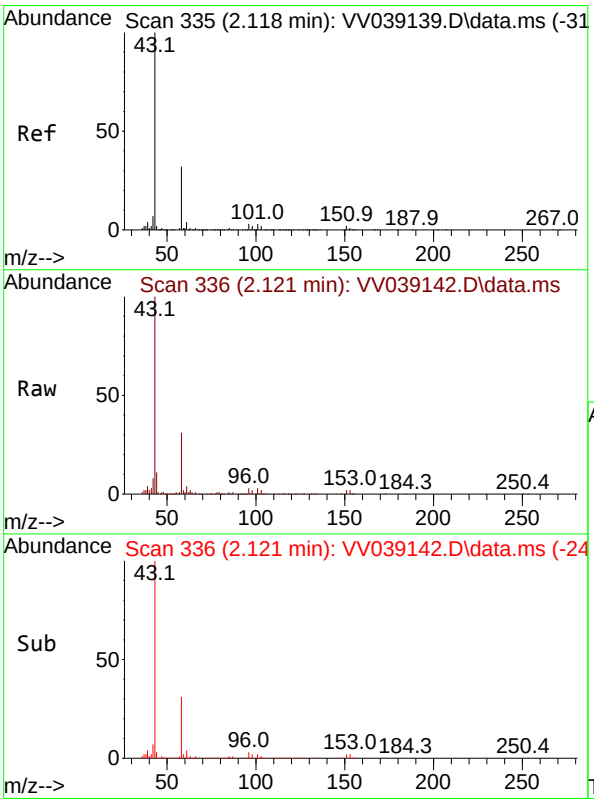
Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.1	99.1
51	35.5	28.5	42.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

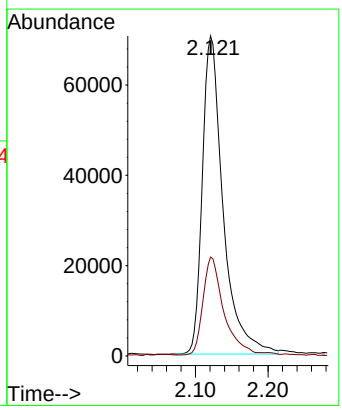
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

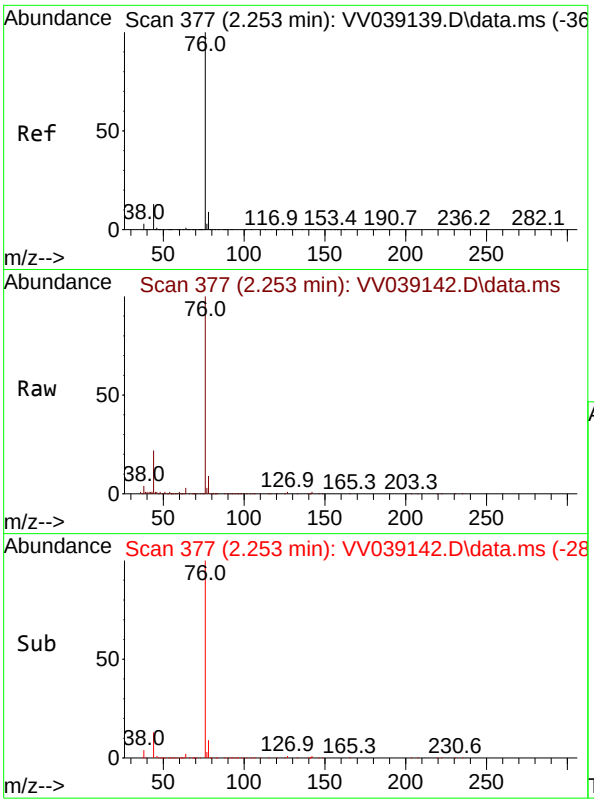


#16
Acetone
Concen: 26.199 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 140190

Ion	Ratio	Lower	Upper
43	100		
58	30.8	25.8	38.6





#17
Carbon Disulfide
Concen: 5.340 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

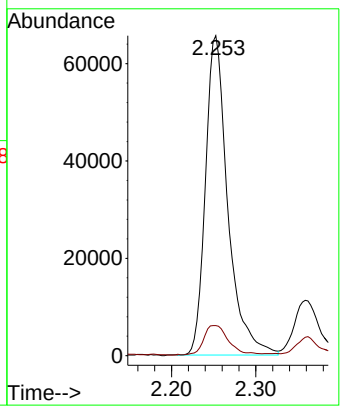
Tgt Ion: 76 Resp: 12135

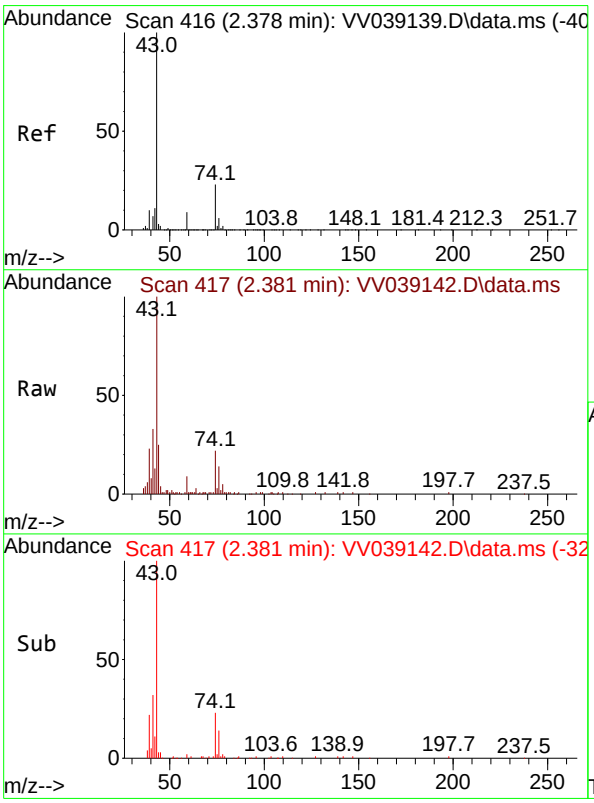
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

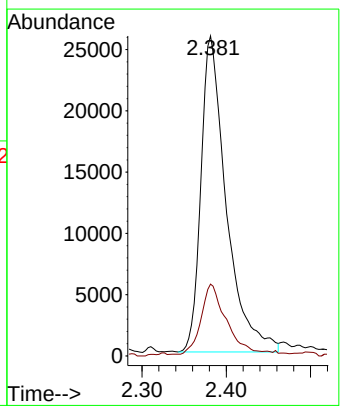


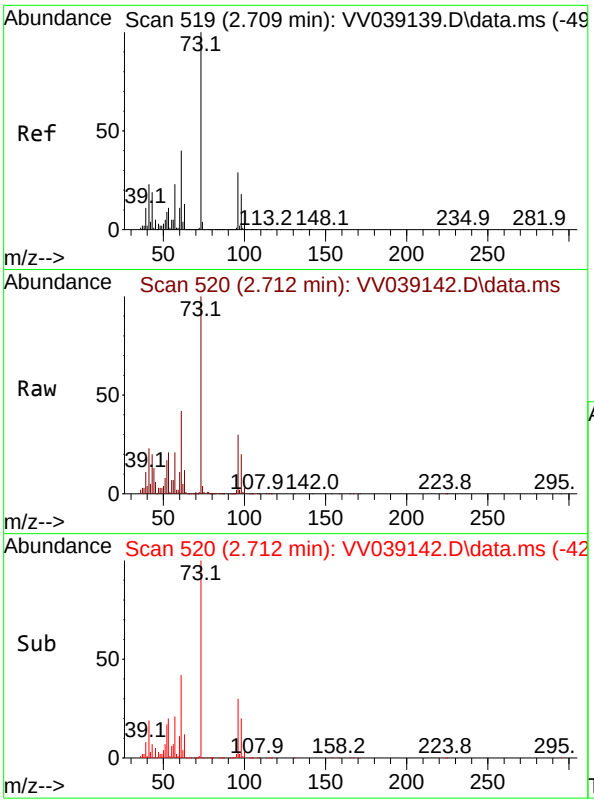


#18
Methyl Acetate
Concen: 5.115 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 54053

Ion	Ratio	Lower	Upper
43	100		
74	21.7	18.6	27.8

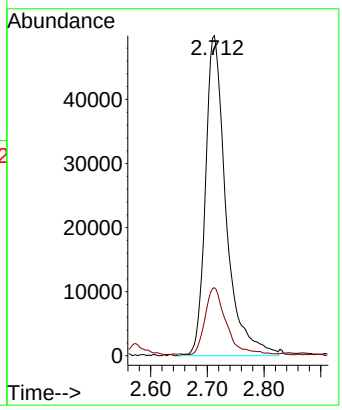




#19
Methyl tert-butyl Ether
Concen: 5.319 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 73 Resp: 12594

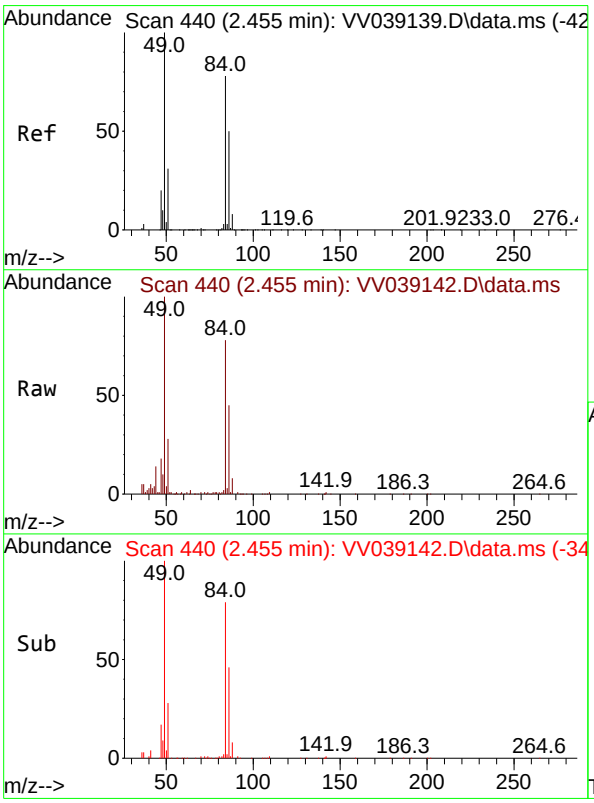
Ion	Ratio	Lower	Upper
73	100		
57	20.8	18.2	27.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

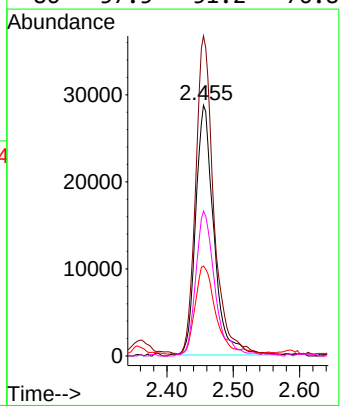
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

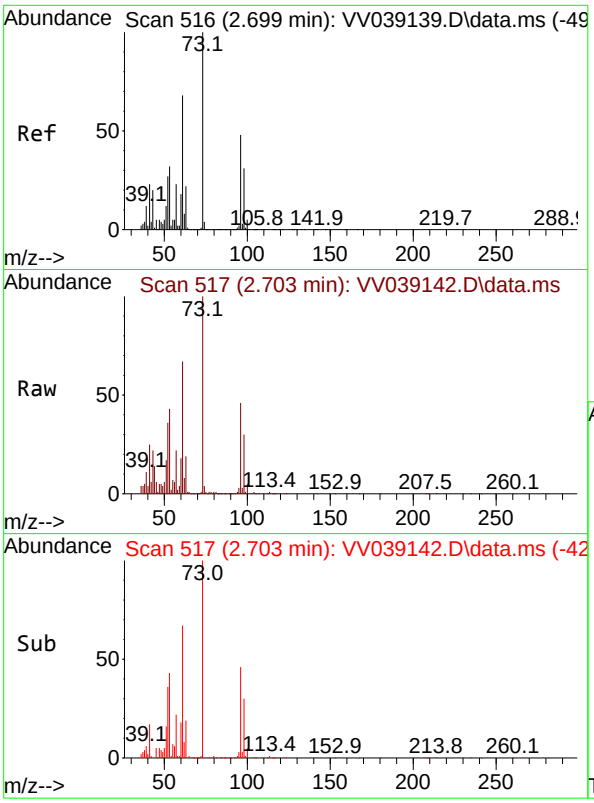


#20
Methylene Chloride
Concen: 5.252 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 84 Resp: 54859

Ion	Ratio	Lower	Upper
84	100		
49	127.4	102.8	154.2
51	35.2	31.9	47.9
86	57.5	51.2	76.8

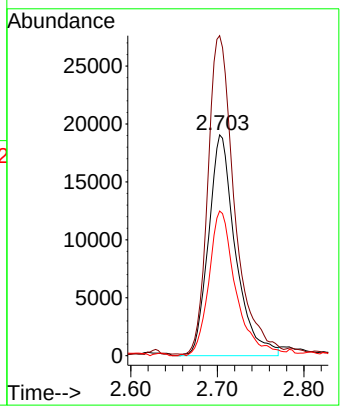




#21
trans-1,2-Dichloroethene
Concen: 5.202 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 4115

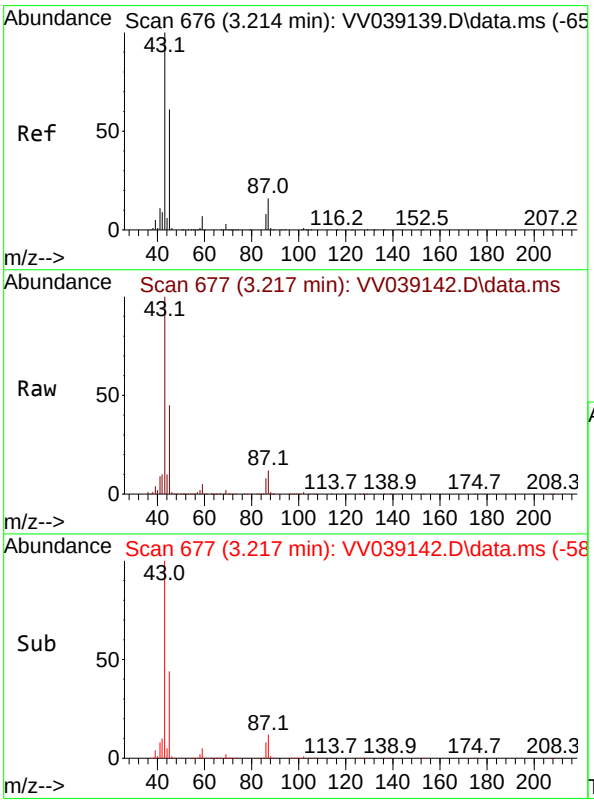
Ion	Ratio	Lower	Upper
96	100		
61	144.1	112.8	169.2
98	65.5	51.1	76.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

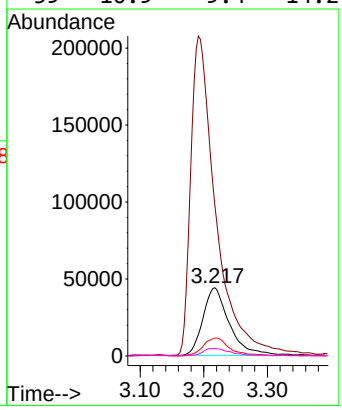
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

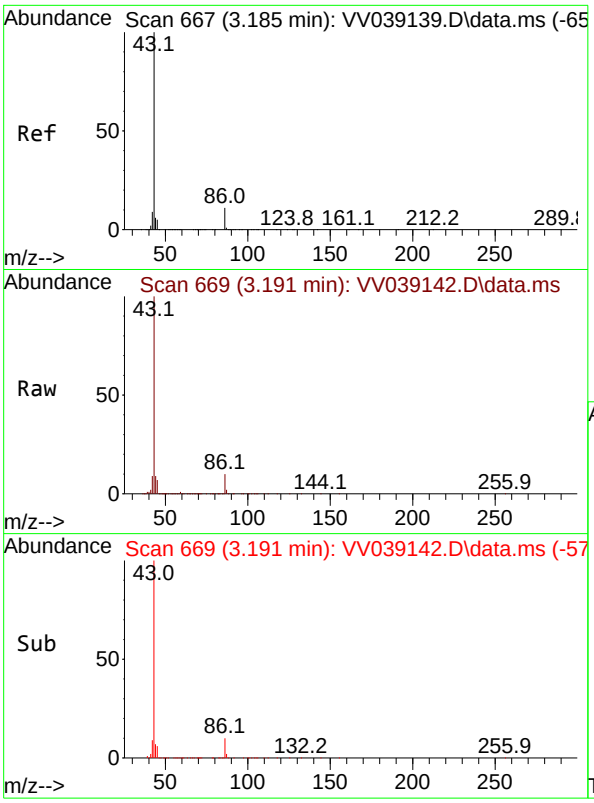


#22
Diisopropyl ether
Concen: 4.969 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 45 Resp: 126181

Ion	Ratio	Lower	Upper
45	100		
43	223.1	130.9	196.3#
87	26.4	21.1	31.7
59	10.9	9.4	14.2





#23
Vinyl Acetate
Concen: 25.661 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

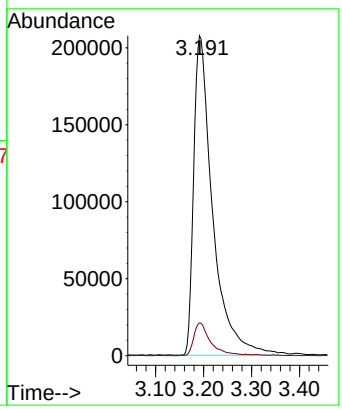
Tgt Ion: 43 Resp: 57004

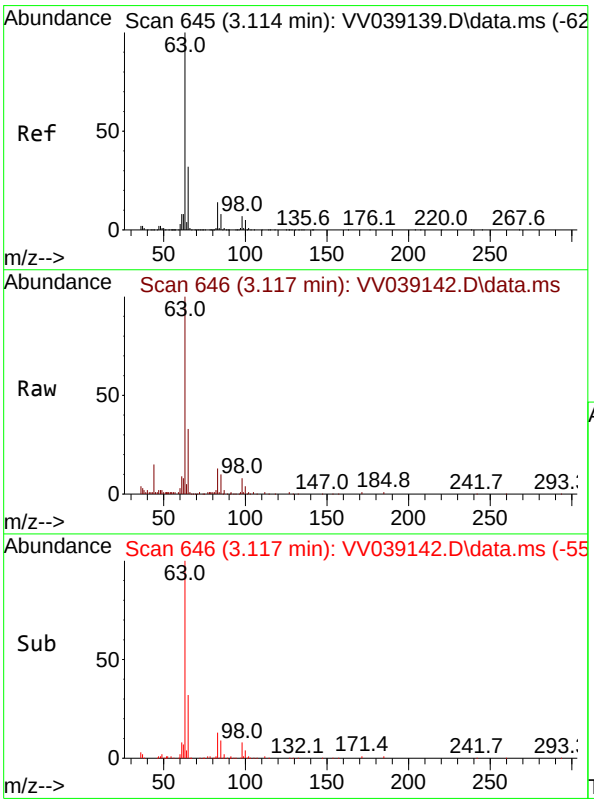
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.4	12.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

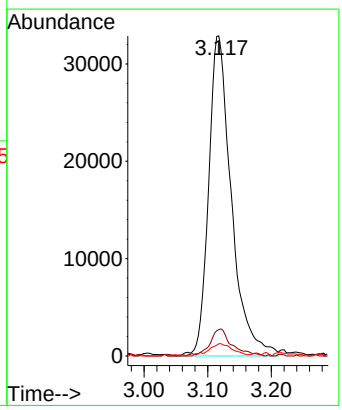


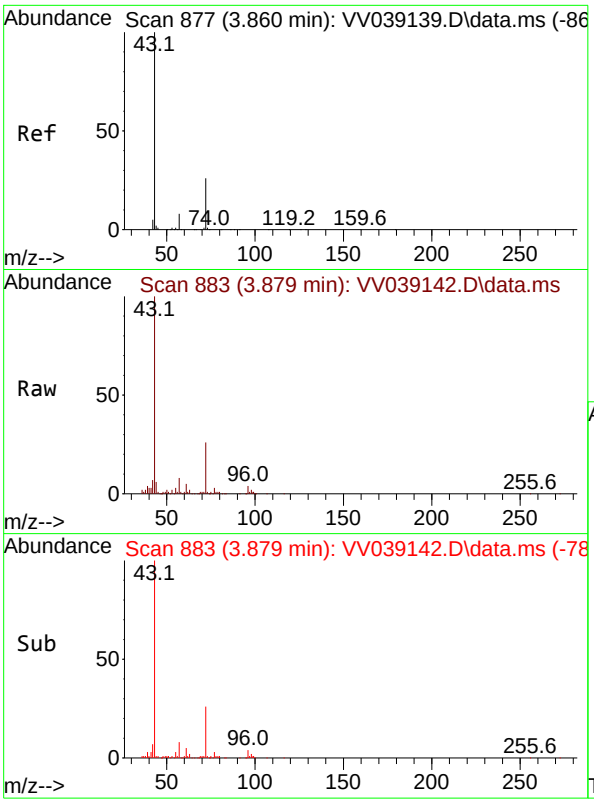


#24
1,1-Dichloroethane
Concen: 5.265 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 81764

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.4	10.2
100	3.5	2.2	6.6





#25
2-Butanone
Concen: 25.002 ug/l
RT: 3.879 min Scan# 8
Delta R.T. 0.019 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

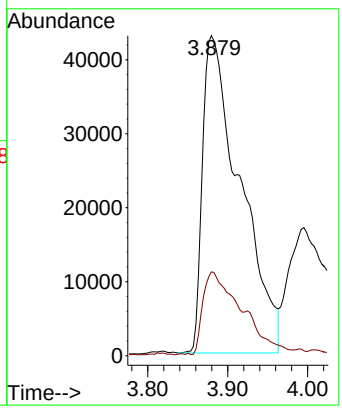
Tgt Ion: 43 Resp: 14036

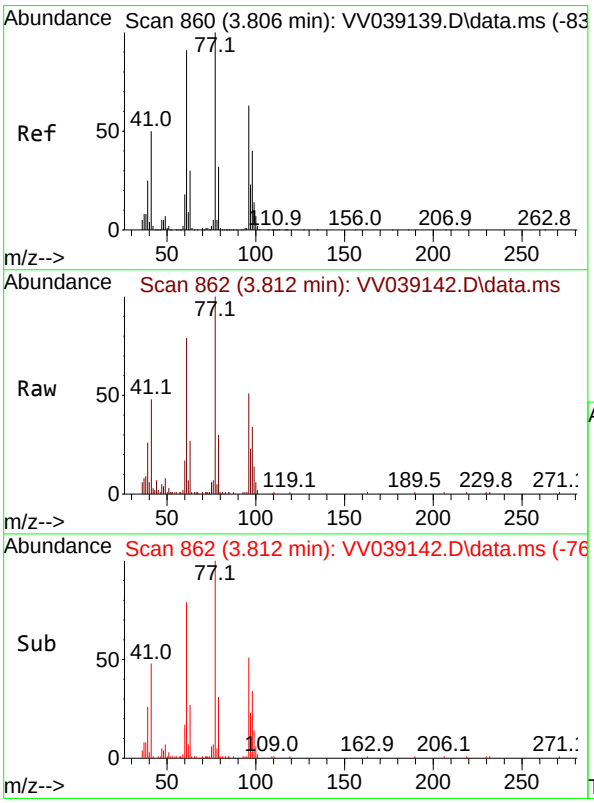
Ion	Ratio	Lower	Upper
43	100		
72	25.9	21.0	31.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

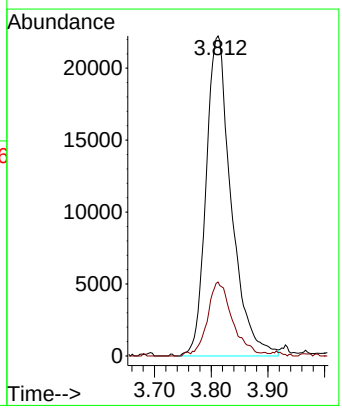


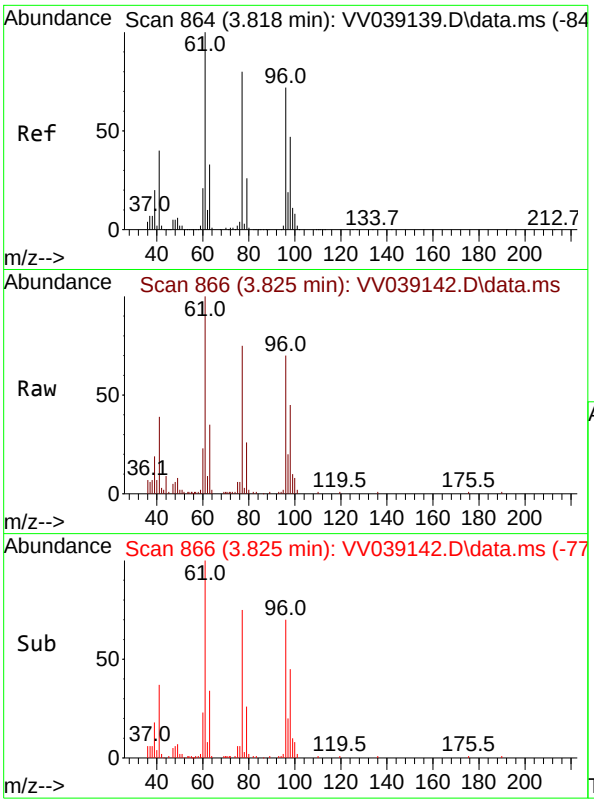


#26
2,2-Dichloropropane
Concen: 5.006 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 77 Resp: 68656

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.6	34.7

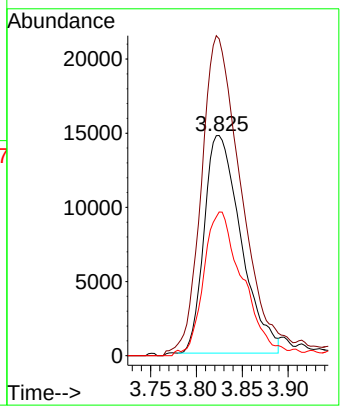




#27
cis-1,2-Dichloroethene
Concen: 4.698 ug/l
RT: 3.825 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 4098

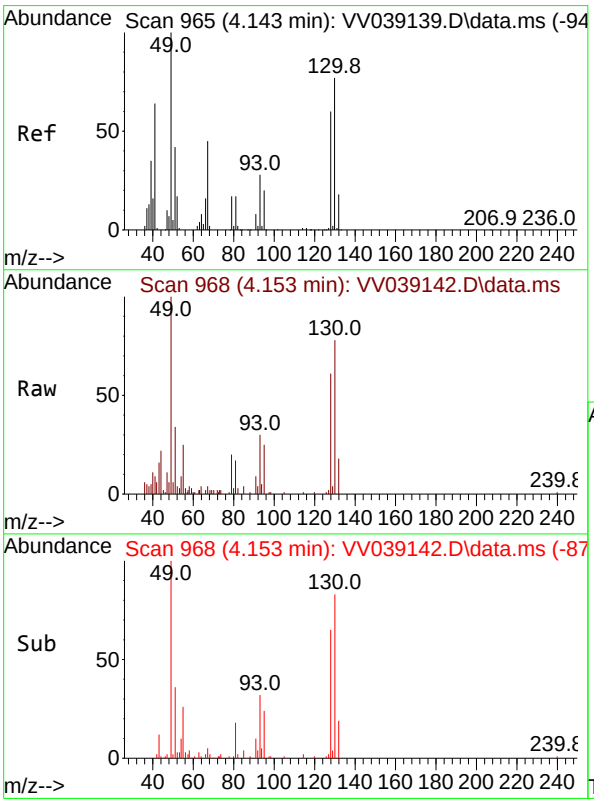
Ion	Ratio	Lower	Upper
96	100		
61	159.9	0.0	286.4
98	70.2	0.0	126.6



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

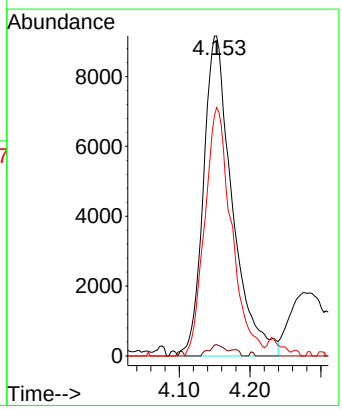
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

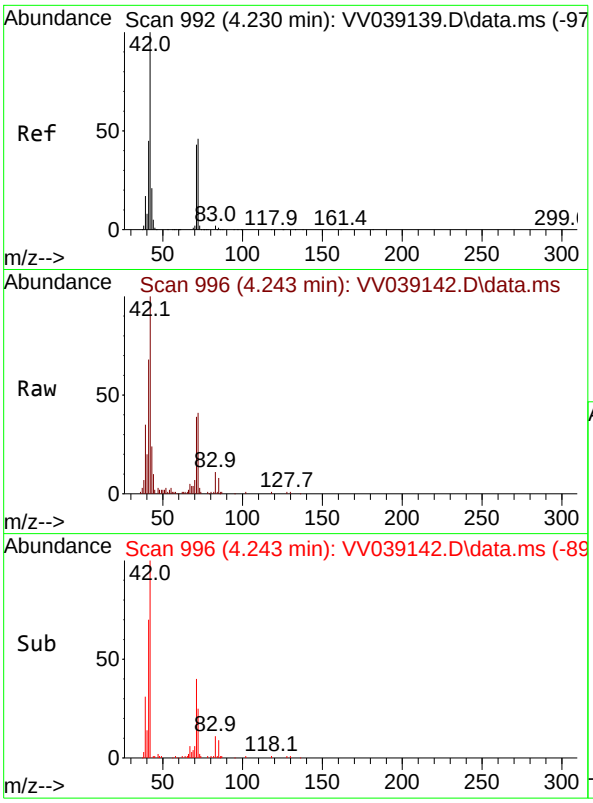


#28
Bromochloromethane
Concen: 3.774 ug/l
RT: 4.153 min Scan# 968
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 49 Resp: 25874

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	72.2	60.2	90.2

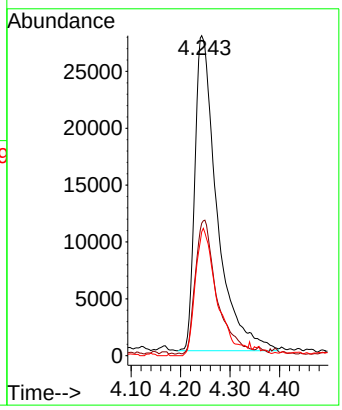




#29
Tetrahydrofuran
Concen: 24.110 ug/l
RT: 4.243 min Scan# 9
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 42 Resp: 8619

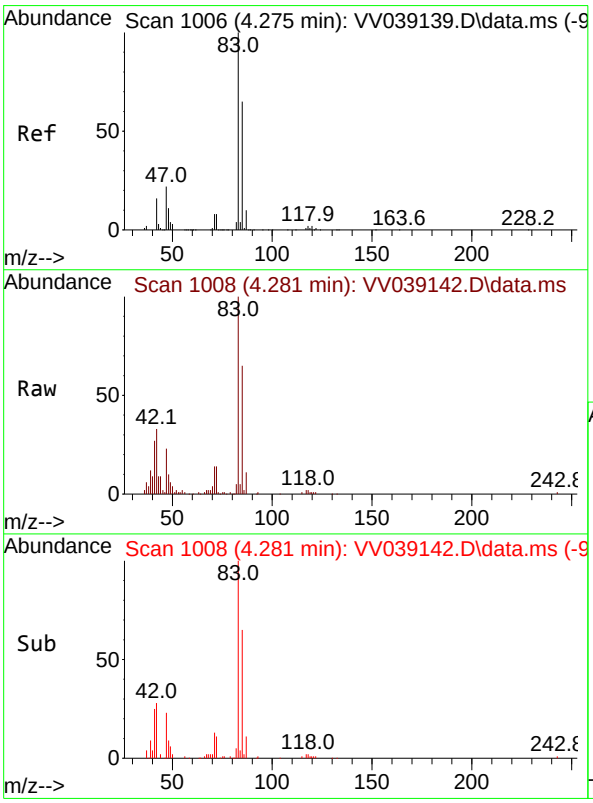
Ion	Ratio	Lower	Upper
42	100		
72	41.3	36.3	54.5
71	39.2	34.3	51.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

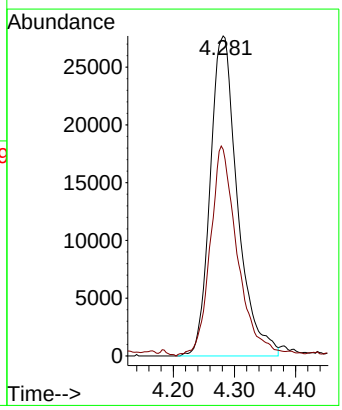
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

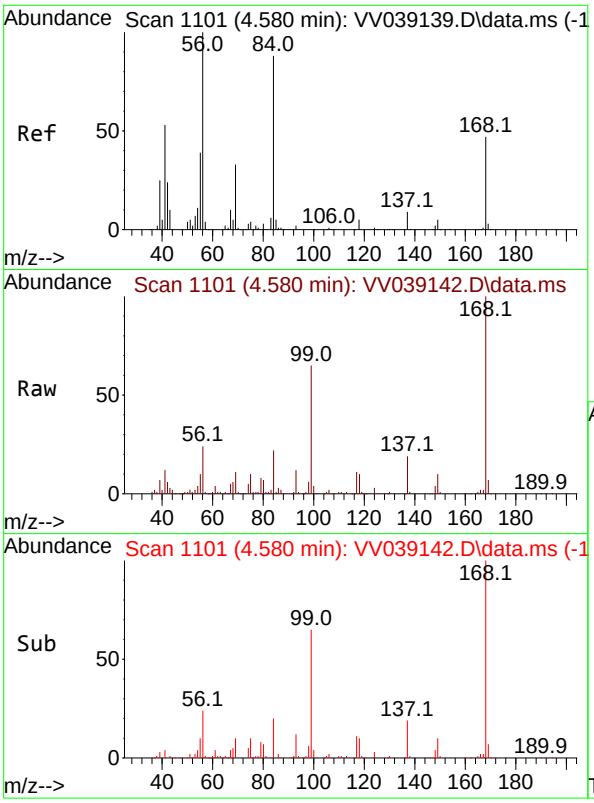


#30
Chloroform
Concen: 5.308 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 86066

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1

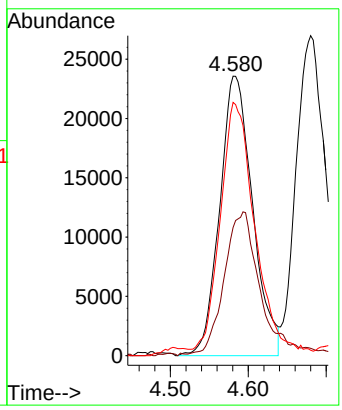




#31
Cyclohexane
Concen: 5.450 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 56 Resp: 6932

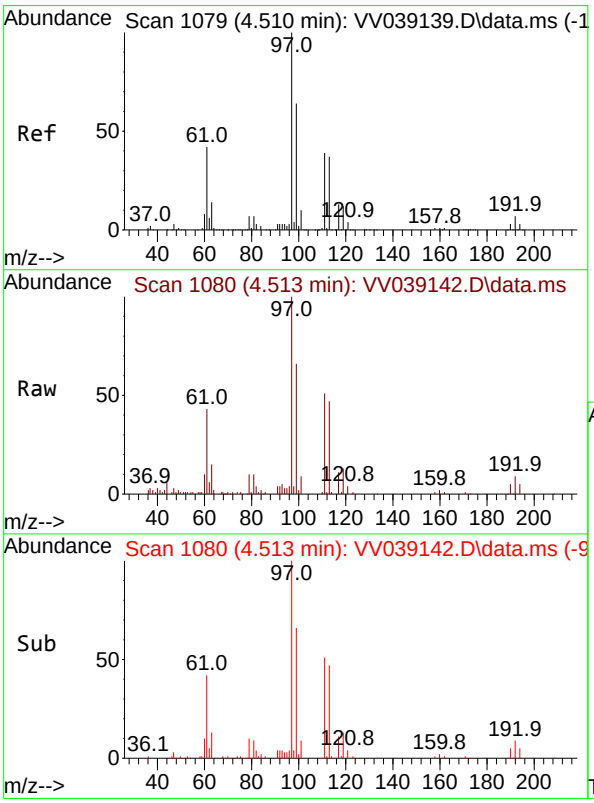
Ion	Ratio	Lower	Upper
56	100		
69	45.8	26.2	39.2#
84	88.1	70.3	105.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

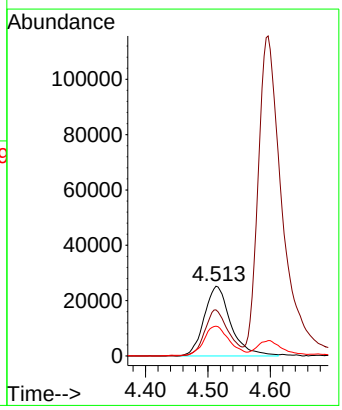
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

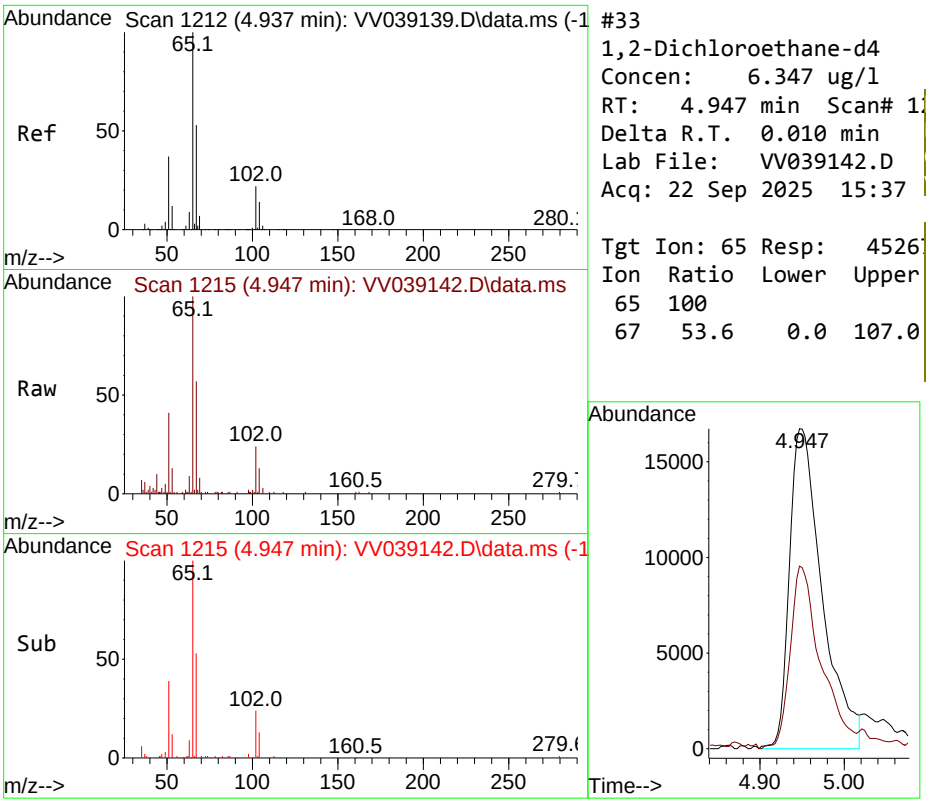


#32
1,1,1-Trichloroethane
Concen: 5.310 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 97 Resp: 74539

Ion	Ratio	Lower	Upper
97	100		
99	58.5	49.6	74.4
61	39.1	34.5	51.7





#33
1,2-Dichloroethane-d4
Concen: 6.347 ug/l
RT: 4.947 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

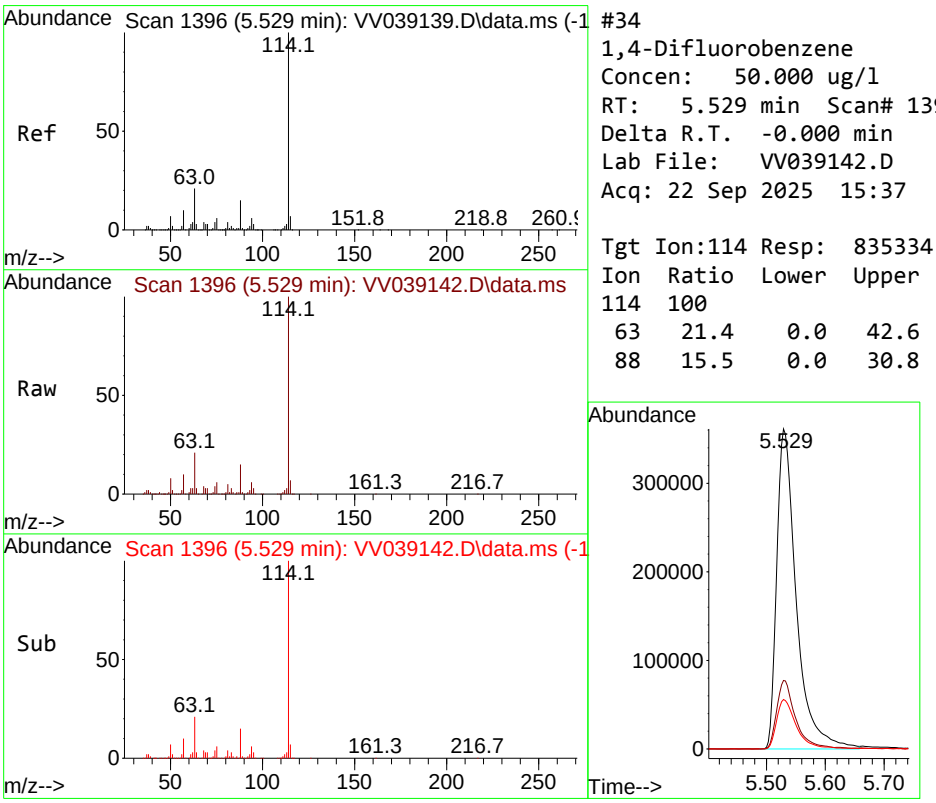
Tgt Ion: 65 Resp: 4526

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	107.0

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

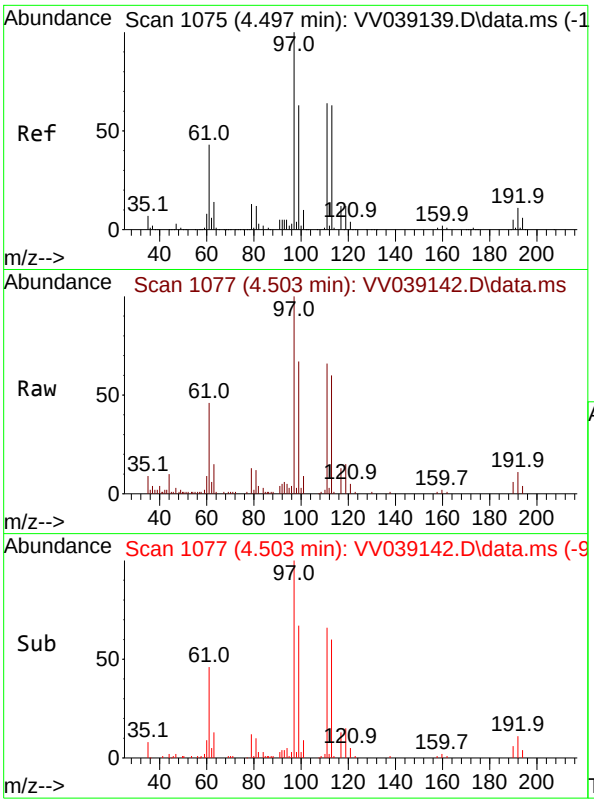
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:114 Resp: 835334

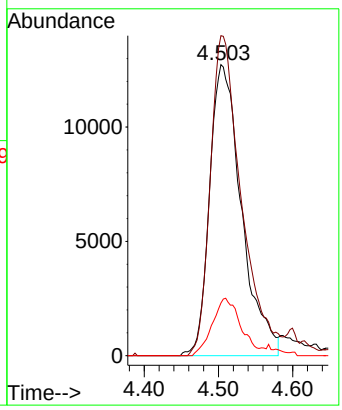
Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.6
88	15.5	0.0	30.8



#35
Dibromofluoromethane
Concen: 5.653 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:113 Resp: 3795

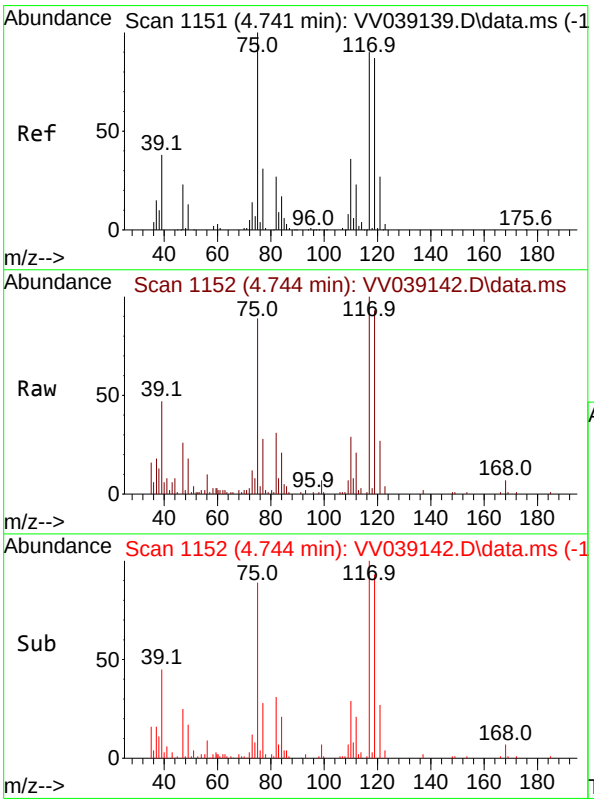
Ion	Ratio	Lower	Upper
113	100		
111	107.6	82.4	123.6
192	17.6	13.8	20.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

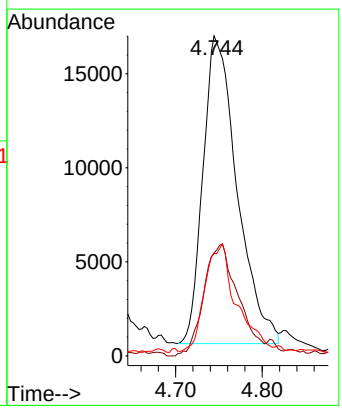
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

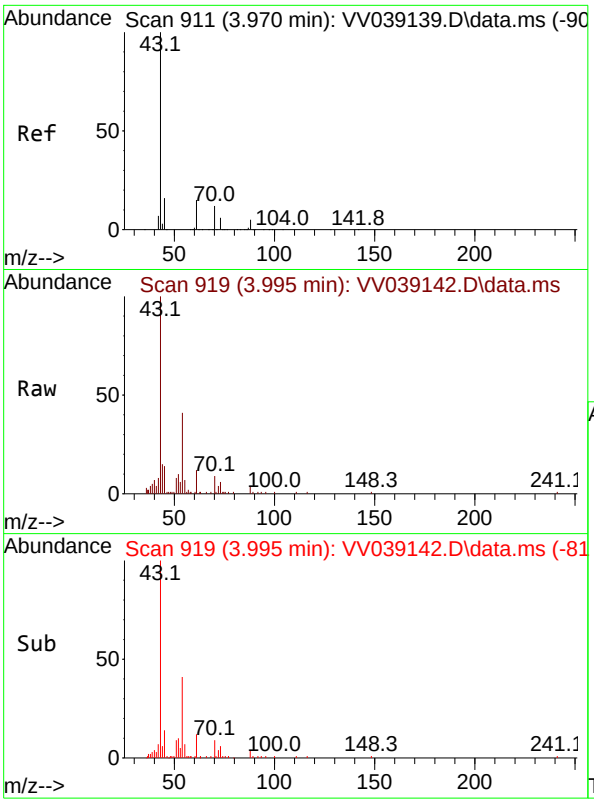


#36
1,1-Dichloropropene
Concen: 4.379 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 44786

Ion	Ratio	Lower	Upper
75	100		
110	36.8	18.1	54.1
77	32.0	24.8	37.2





#37
Ethyl Acetate
Concen: 4.805 ug/l
RT: 3.995 min Scan# 9
Delta R.T. 0.025 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

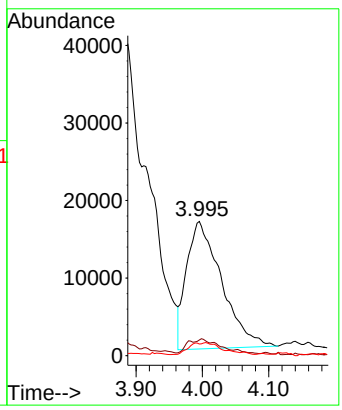
Tgt Ion: 43 Resp: 6028

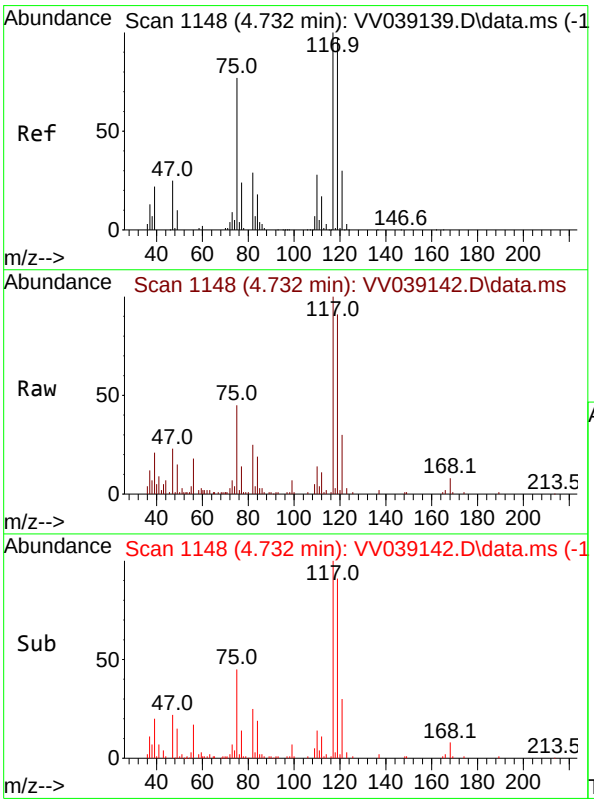
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	3.0	8.0	12.0#

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

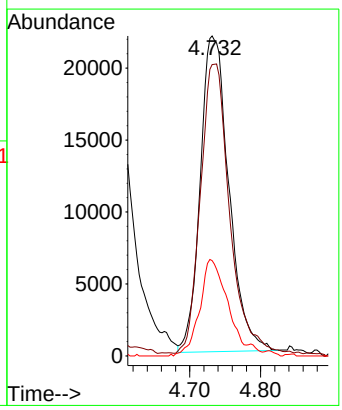


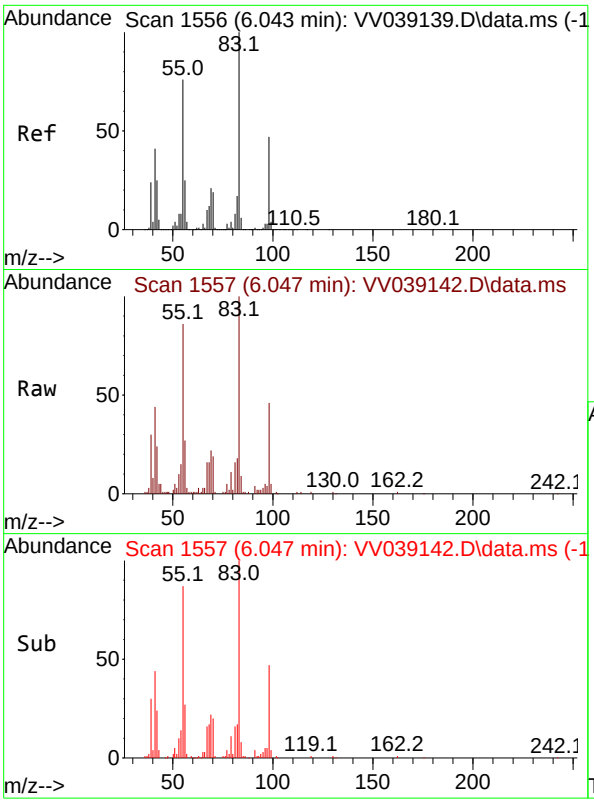


#38
Carbon Tetrachloride
Concen: 4.992 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 61498

Ion	Ratio	Lower	Upper
117	100		
119	91.1	77.2	115.8
121	29.8	24.2	36.2





#39
Methylcyclohexane
Concen: 4.633 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

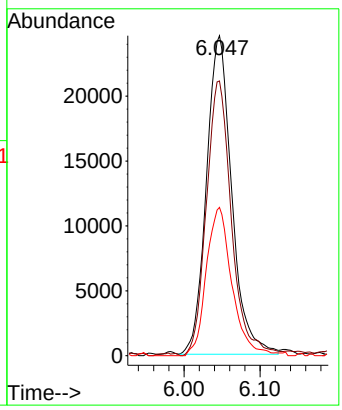
Tgt Ion: 83 Resp: 5680

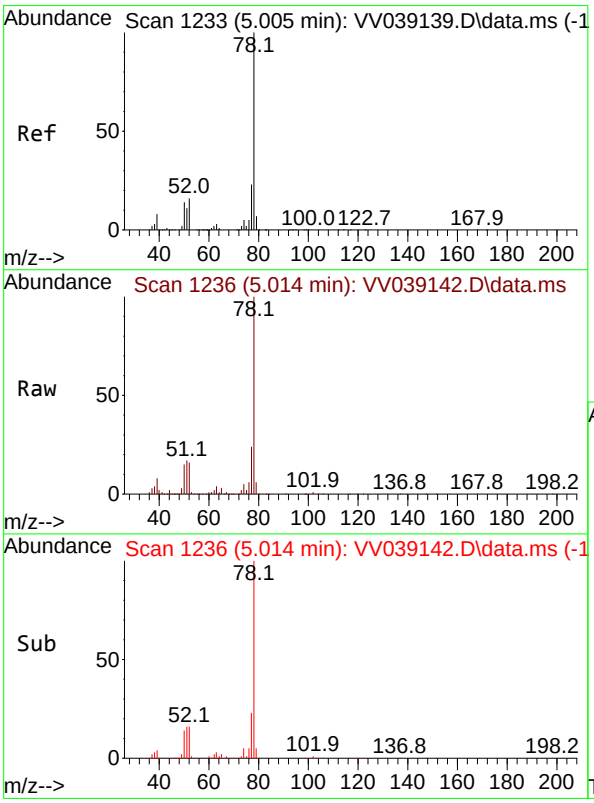
Ion	Ratio	Lower	Upper
83	100		
55	85.8	60.5	90.7
98	46.6	37.8	56.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

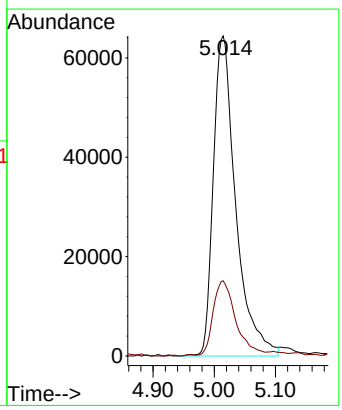


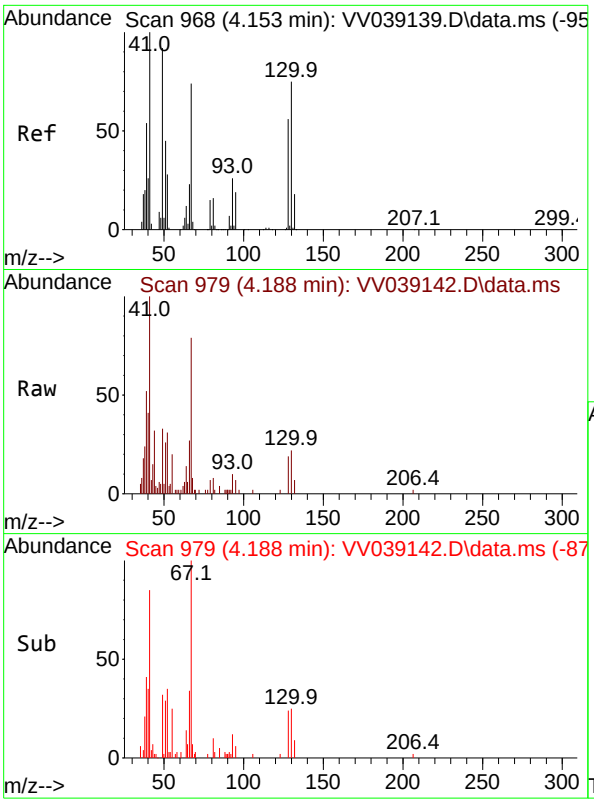


#40
Benzene
Concen: 4.959 ug/l
RT: 5.014 min Scan# 1236
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 78 Resp: 163948

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1

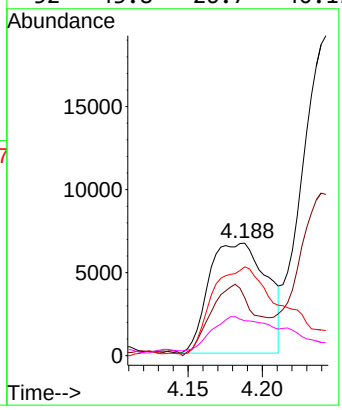




#41
Methacrylonitrile
Concen: 4.995 ug/l
RT: 4.188 min Scan# 9
Delta R.T. 0.035 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 1795

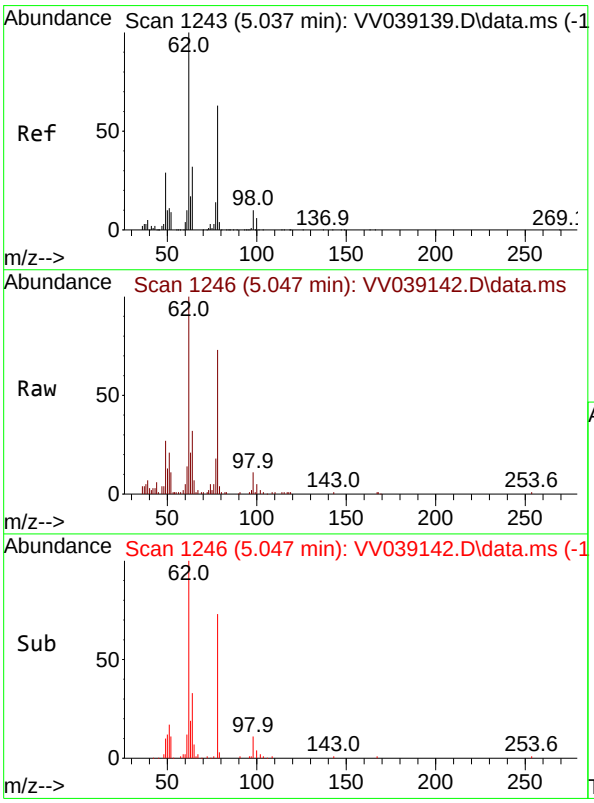
Ion	Ratio	Lower	Upper
41	100		
39	50.3	42.2	63.2
67	102.2	67.9	101.9#
52	43.8	26.7	40.1#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

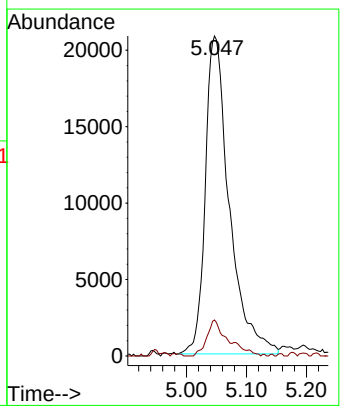
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

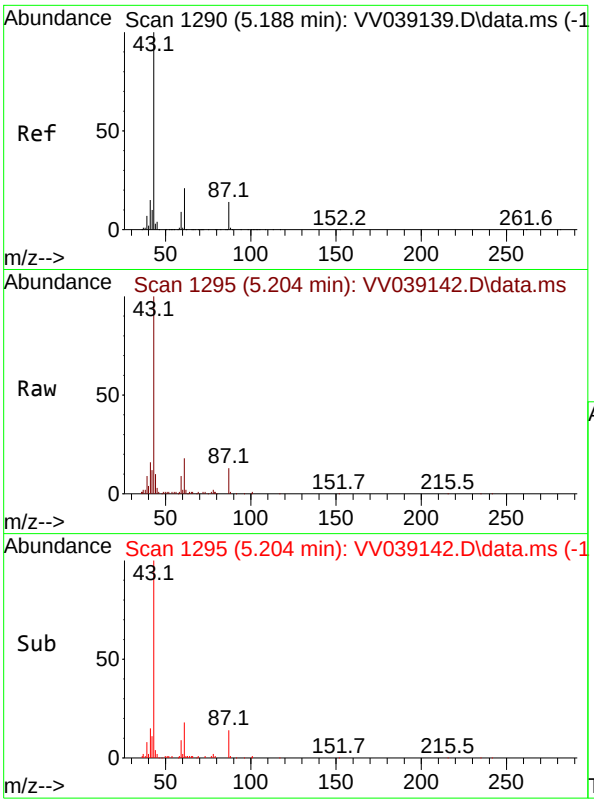


#42
1,2-Dichloroethane
Concen: 4.994 ug/l
RT: 5.047 min Scan# 1246
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 57857

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	19.2

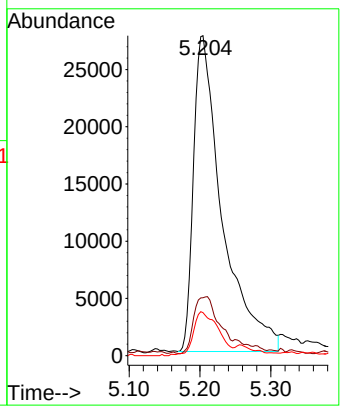




#43
Isopropyl Acetate
Concen: 4.509 ug/l
RT: 5.204 min Scan# 1
Delta R.T. 0.016 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 7793

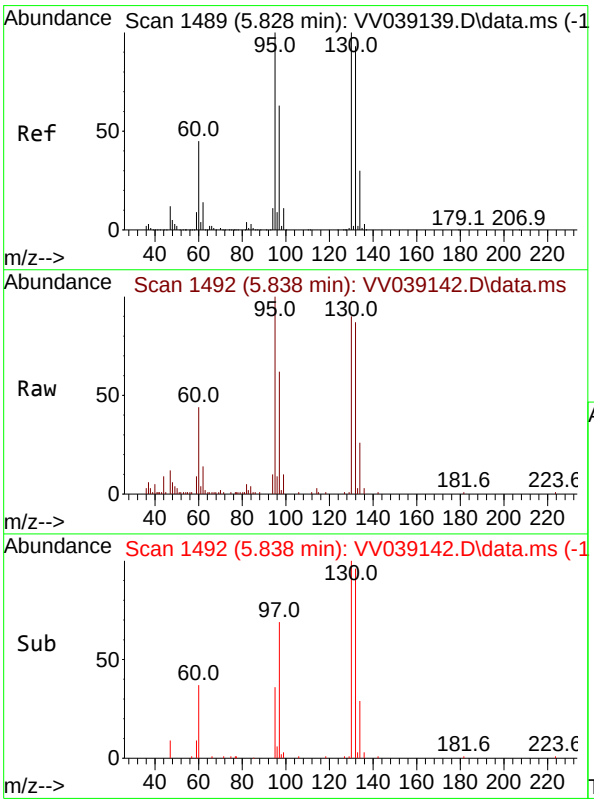
Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.9	23.9
87	12.0	11.0	16.6



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

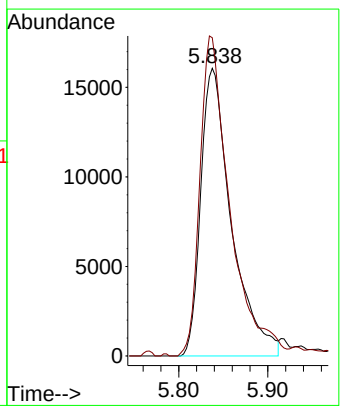
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

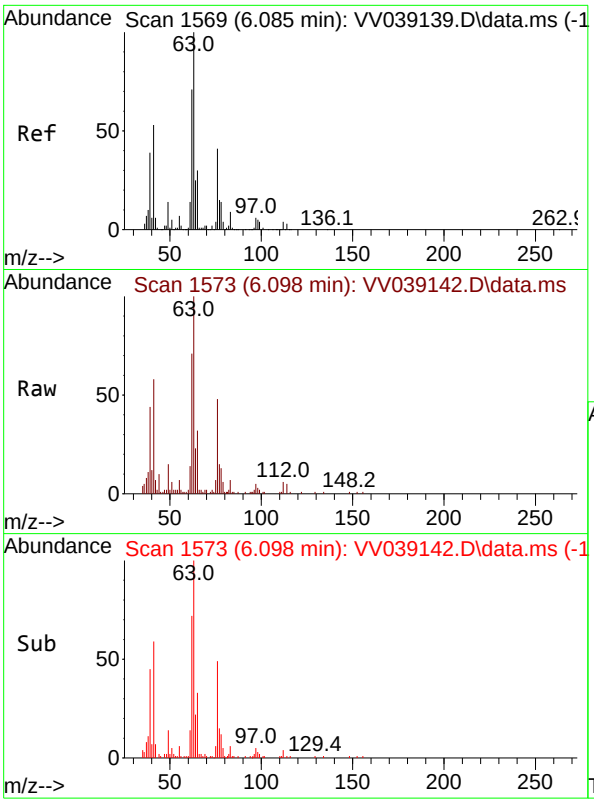


#44
Trichloroethene
Concen: 5.033 ug/l
RT: 5.838 min Scan# 1492
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:130 Resp: 38395

Ion	Ratio	Lower	Upper
130	100		
95	110.6	0.0	199.2

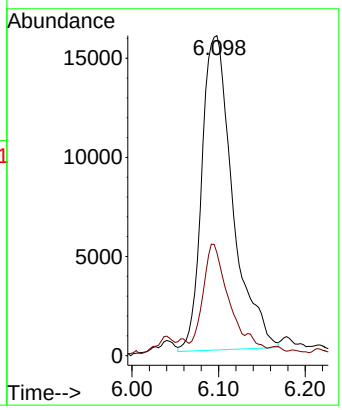




#45
1,2-Dichloropropane
Concen: 4.786 ug/l
RT: 6.098 min Scan# 1
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 3932

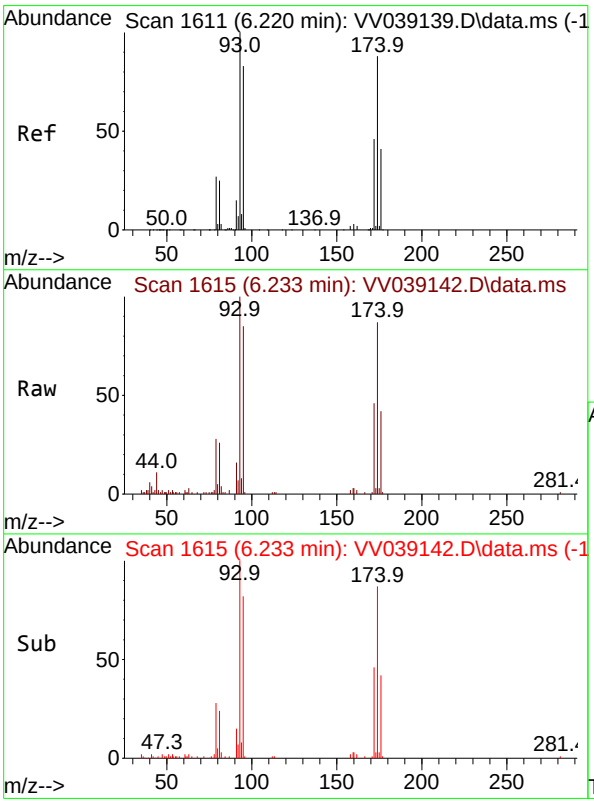
Ion	Ratio	Lower	Upper
63	100		
65	29.6	23.7	35.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

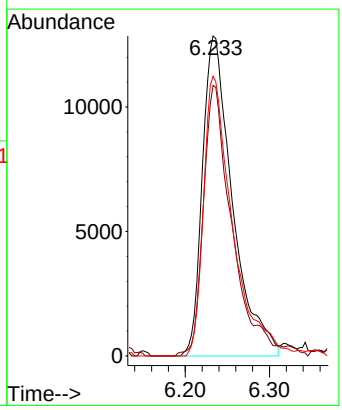
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

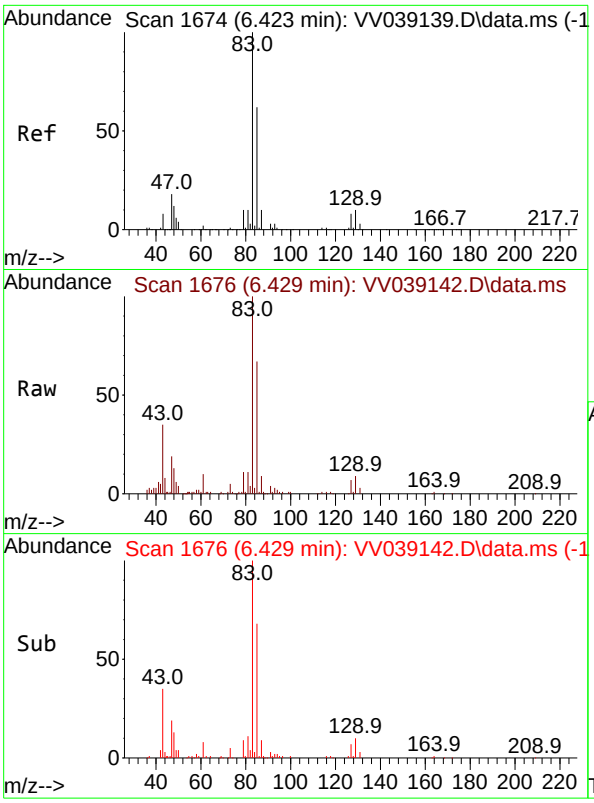


#46
Dibromomethane
Concen: 5.066 ug/l
RT: 6.233 min Scan# 1615
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 93 Resp: 31863

Ion	Ratio	Lower	Upper
93	100		
95	80.2	65.5	98.3
174	84.5	69.0	103.4

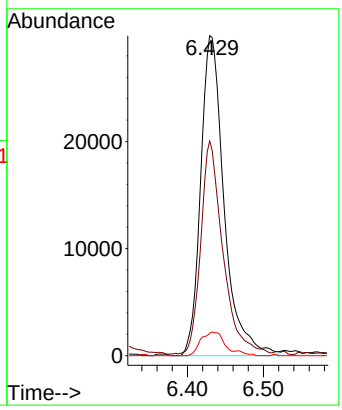




#47
Bromodichloromethane
Concen: 4.925 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 6403

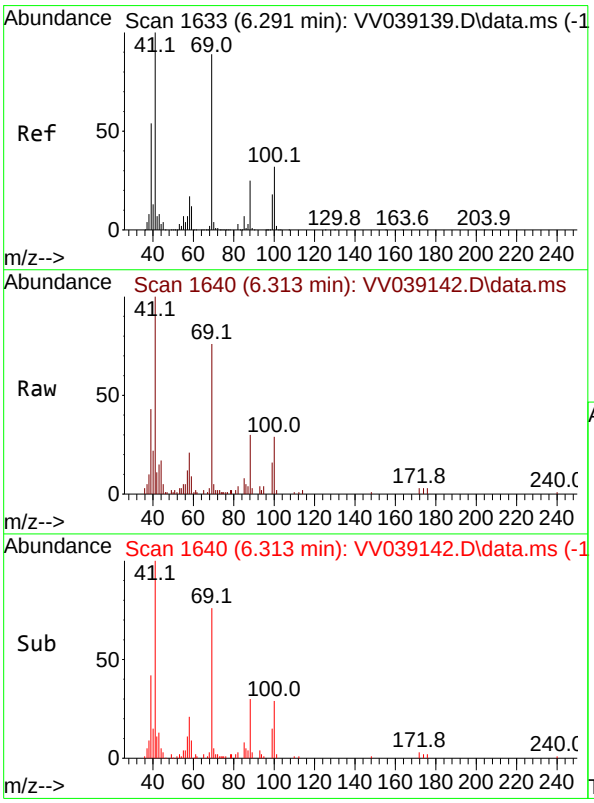
Ion	Ratio	Lower	Upper
83	100		
85	66.5	49.7	74.5
127	7.1	6.6	9.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

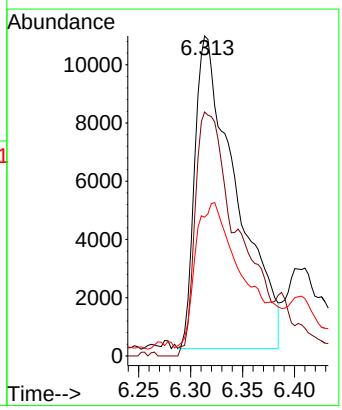
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

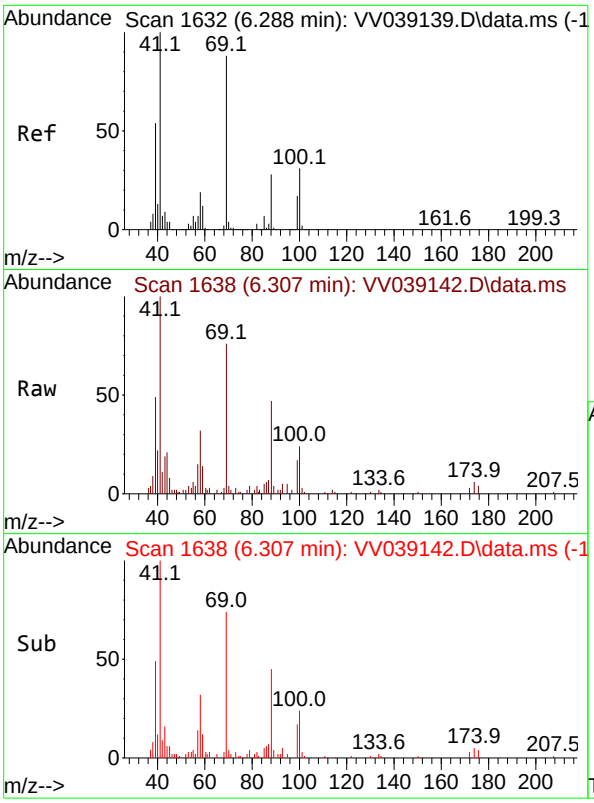


#48
Methyl methacrylate
Concen: 3.757 ug/l
RT: 6.313 min Scan# 1640
Delta R.T. 0.022 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 29705

Ion	Ratio	Lower	Upper
41	100		
69	81.4	72.4	108.6
39	54.4	42.5	63.7





#49
1,4-Dioxane
Concen: 72.413 ug/l
RT: 6.307 min Scan# 1
Delta R.T. 0.019 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

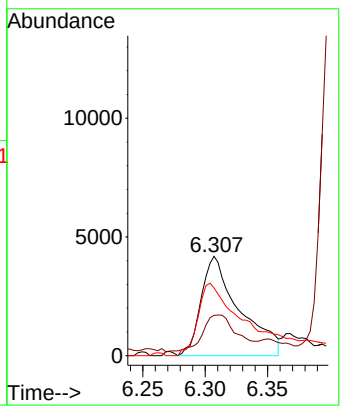
Tgt Ion: 88 Resp: 899

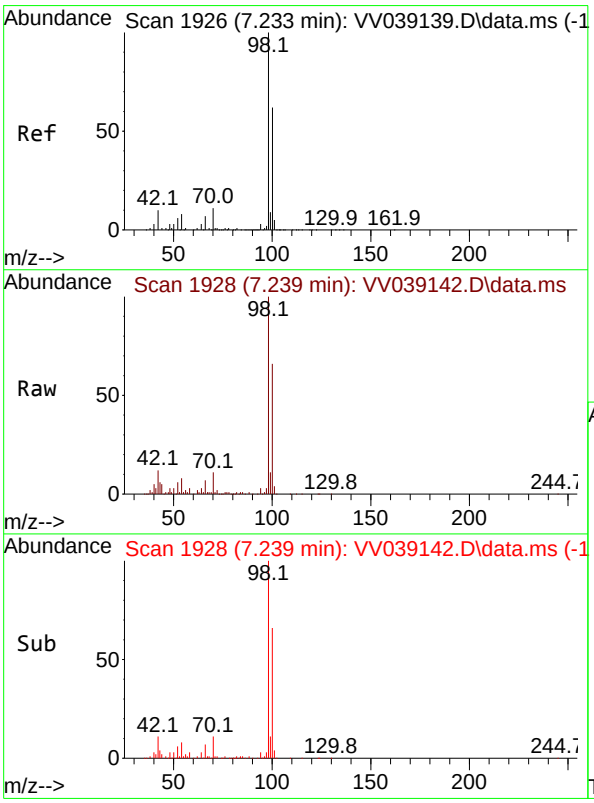
Ion	Ratio	Lower	Upper
88	100		
43	31.9	25.1	37.7
58	91.7	53.6	80.4

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

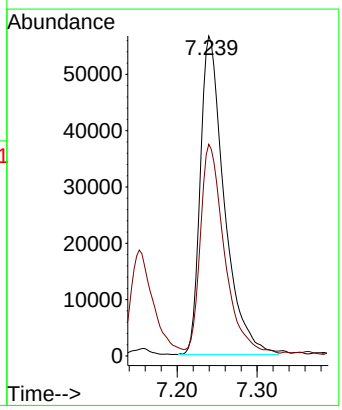


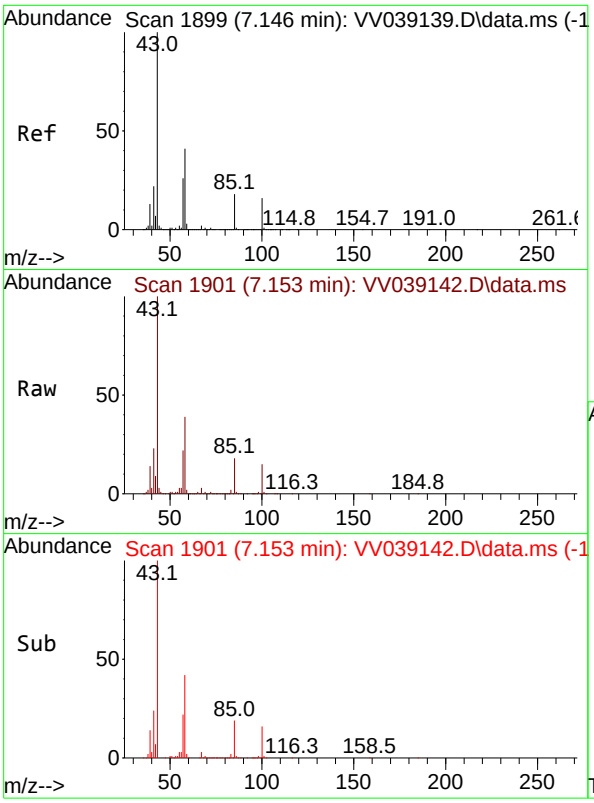


#50
Toluene-d8
Concen: 5.976 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 98 Resp: 117860

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.2	78.2

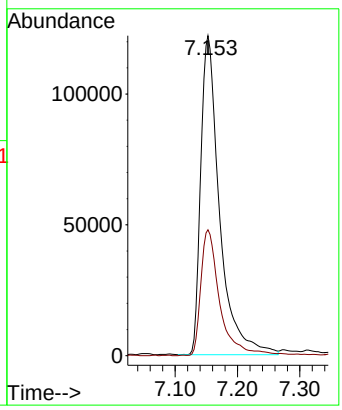




#51
4-Methyl-2-Pentanone
Concen: 23.155 ug/l
RT: 7.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 25588

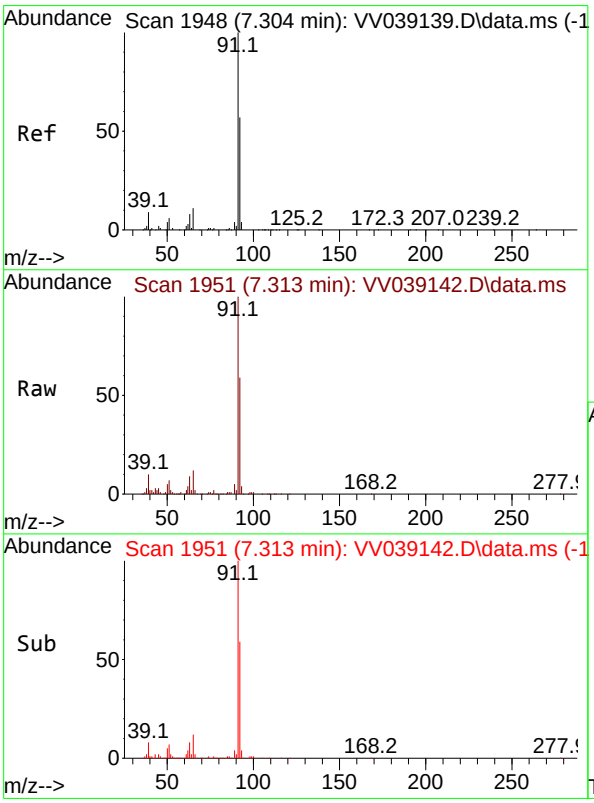
Ion	Ratio	Lower	Upper
43	100		
58	39.6	32.3	48.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

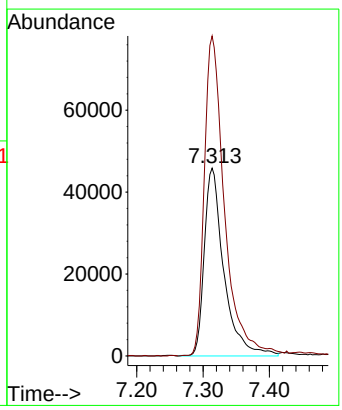
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

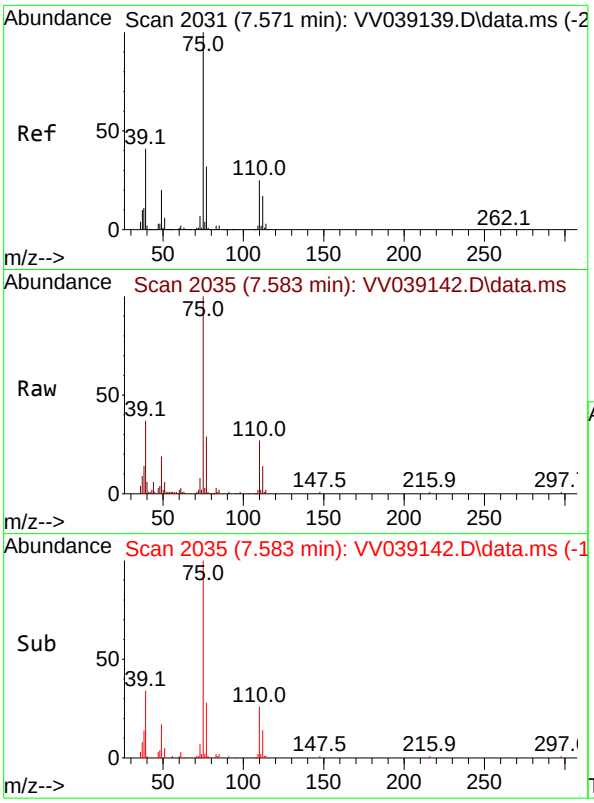


#52
Toluene
Concen: 4.925 ug/l
RT: 7.313 min Scan# 1951
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 92 Resp: 94414

Ion	Ratio	Lower	Upper
92	100		
91	175.4	139.2	208.8

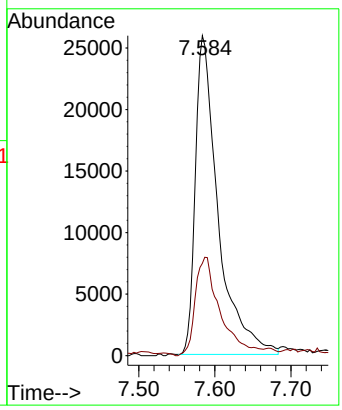




#53
t-1,3-Dichloropropene
Concen: 4.755 ug/l
RT: 7.583 min Scan# 2
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 5387

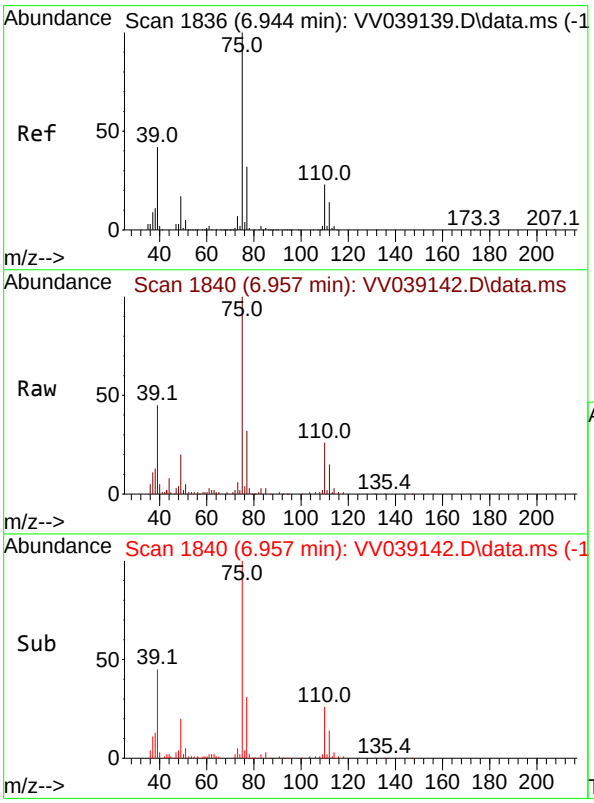
Ion	Ratio	Lower	Upper
75	100		
77	29.0	25.9	38.9



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

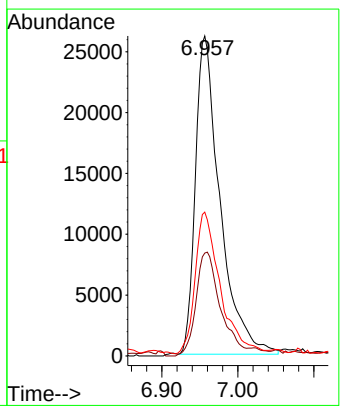
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

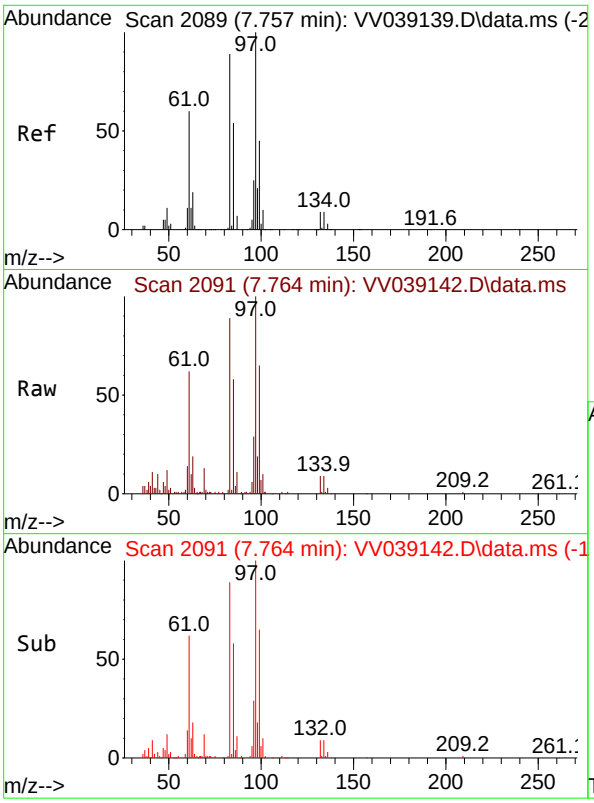


#54
cis-1,3-Dichloropropene
Concen: 4.700 ug/l
RT: 6.957 min Scan# 1840
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 58800

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.5	38.3
39	44.3	33.8	50.6

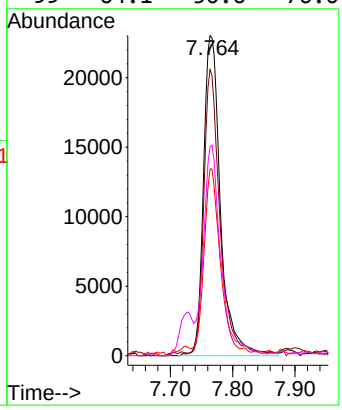




#55
1,1,2-Trichloroethane
Concen: 5.094 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 97 Resp: 4378

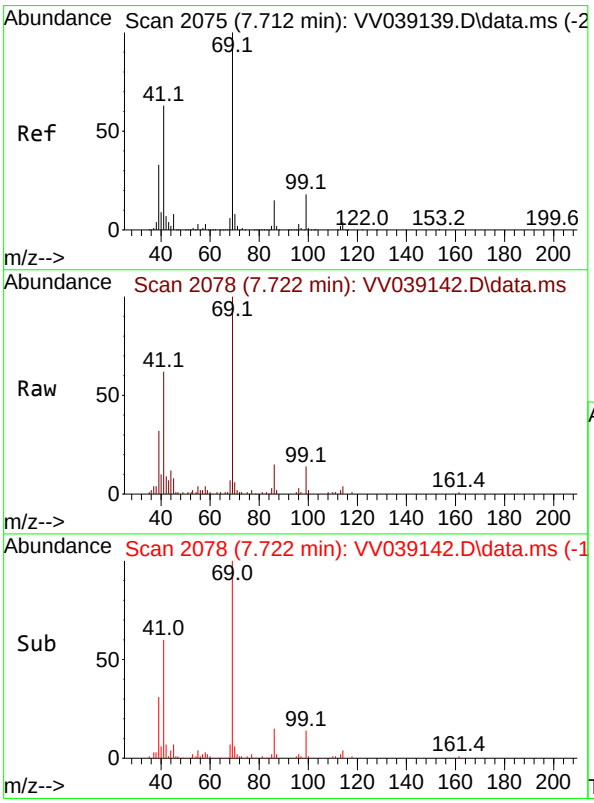
Ion	Ratio	Lower	Upper
97	100		
83	88.7	71.1	106.7
85	57.1	44.6	67.0
99	64.1	50.6	76.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

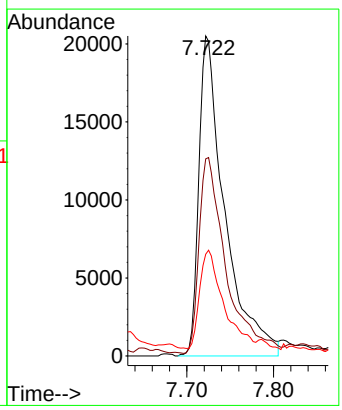
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

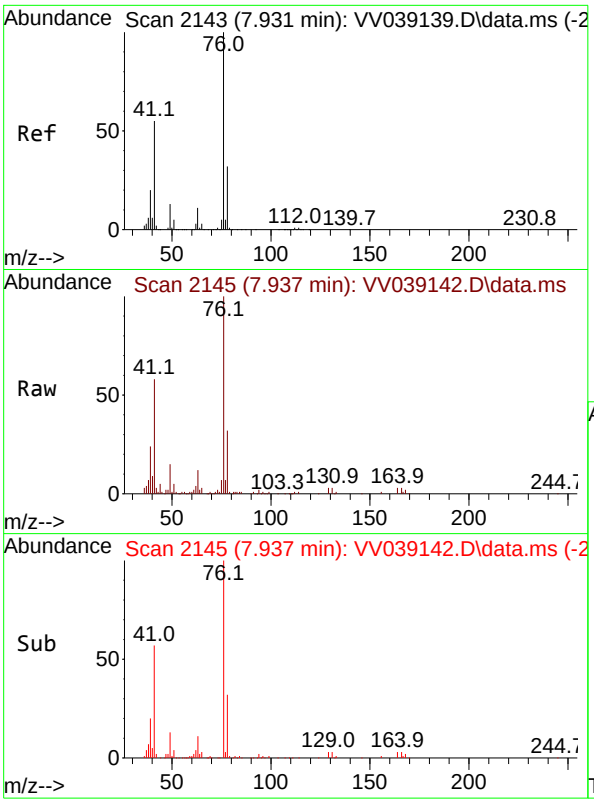


#56
Ethyl methacrylate
Concen: 4.173 ug/l
RT: 7.722 min Scan# 2078
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 69 Resp: 42598

Ion	Ratio	Lower	Upper
69	100		
41	63.6	50.7	76.1
39	28.1	26.0	39.0

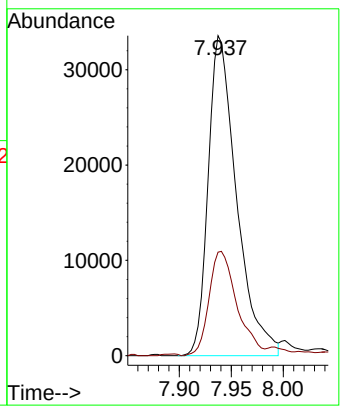




#57
1,3-Dichloropropane
Concen: 4.705 ug/l
RT: 7.937 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 76 Resp: 6381

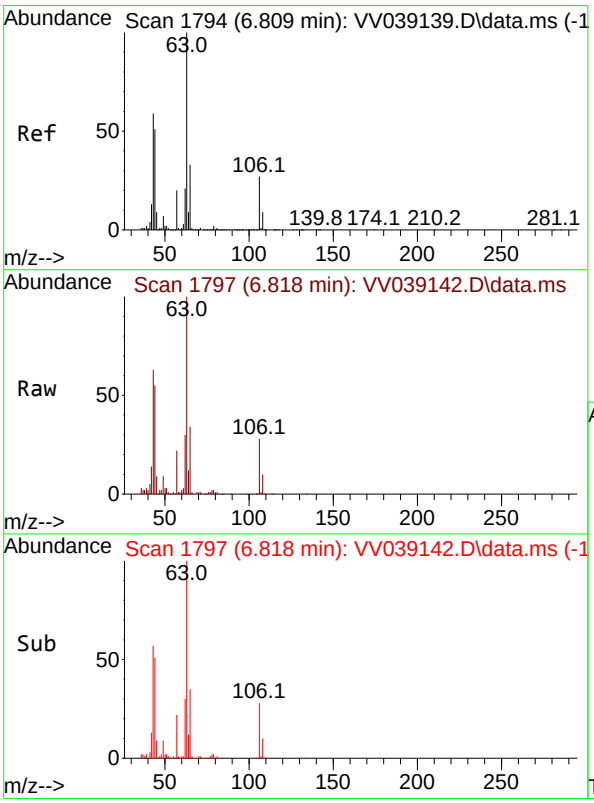
Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.1	39.1



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

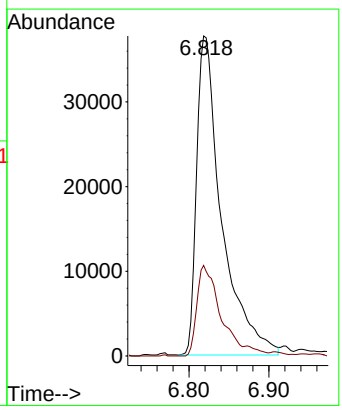
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

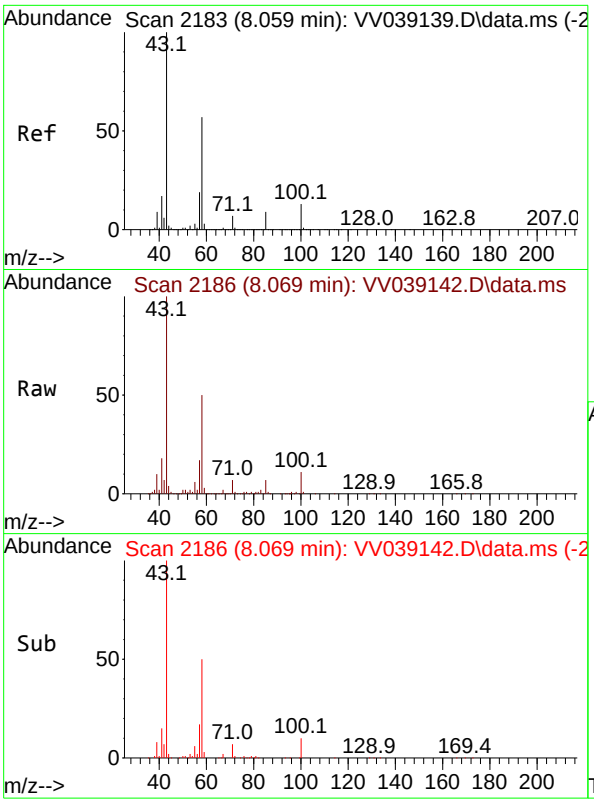


#58
2-Chloroethyl Vinyl ether
Concen: 23.077 ug/l
RT: 6.818 min Scan# 1797
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 81984

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.1	33.1





#59
2-Hexanone
Concen: 22.071 ug/l
RT: 8.069 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

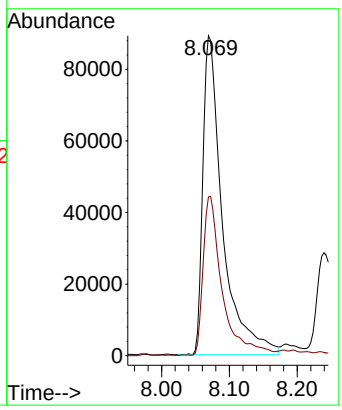
Tgt Ion: 43 Resp: 17918

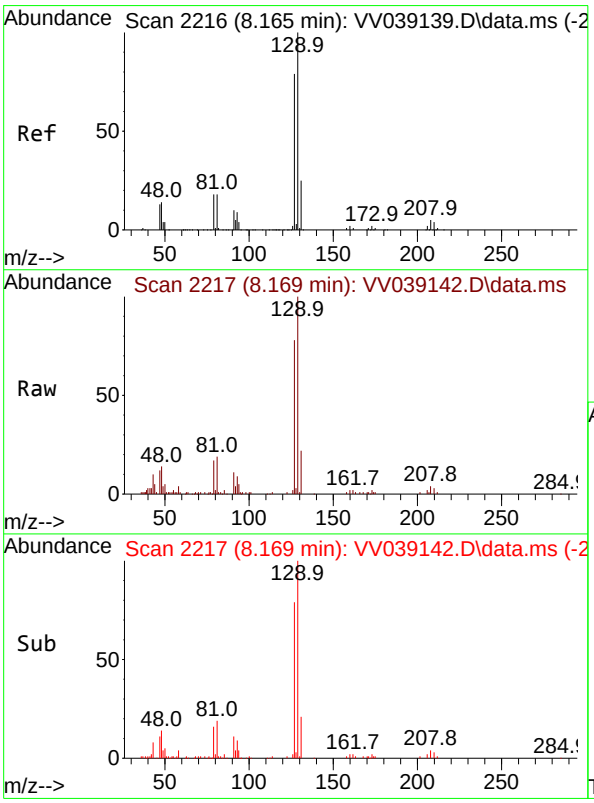
Ion	Ratio	Lower	Upper
43	100		
58	48.1	28.3	85.0

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

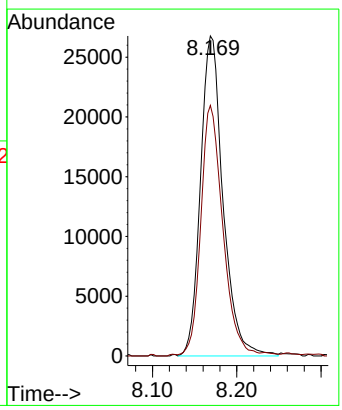


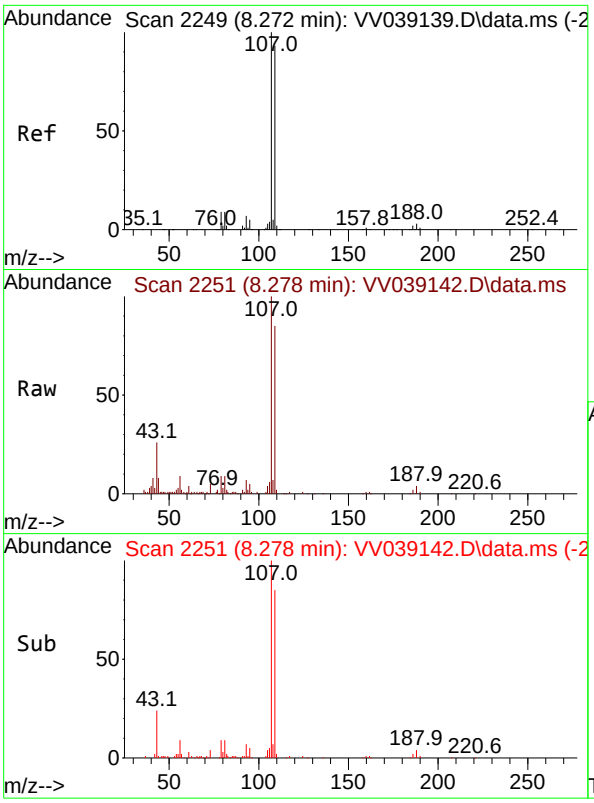


#60
Dibromochloromethane
Concen: 5.100 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:129 Resp: 49953

Ion	Ratio	Lower	Upper
129	100		
127	74.8	39.3	117.9





#61
1,2-Dibromoethane
Concen: 5.088 ug/l
RT: 8.278 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

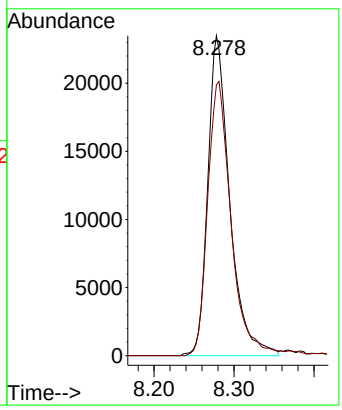
Tgt Ion:107 Resp: 4472

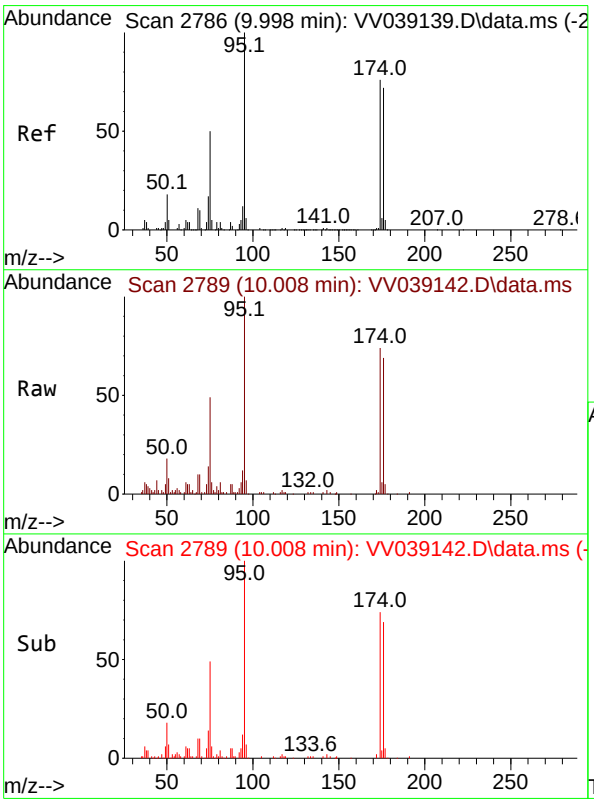
Ion	Ratio	Lower	Upper
107	100		
109	91.4	74.6	112.0

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

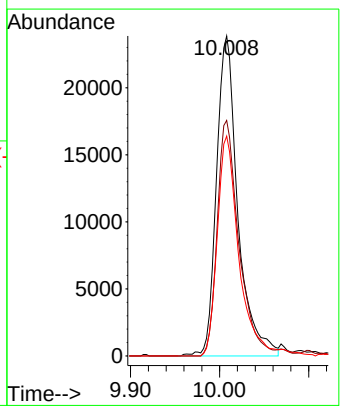


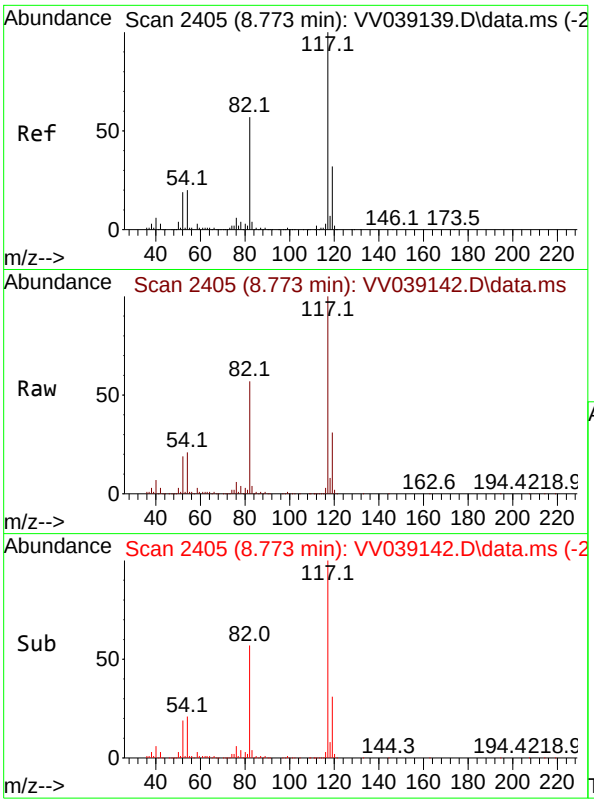


#62
4-Bromofluorobenzene
Concen: 4.904 ug/l
RT: 10.008 min Scan# 2789
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 95 Resp: 39819

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	150.4
176	70.3	0.0	144.2

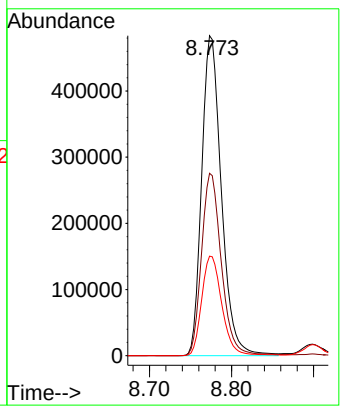




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 80774

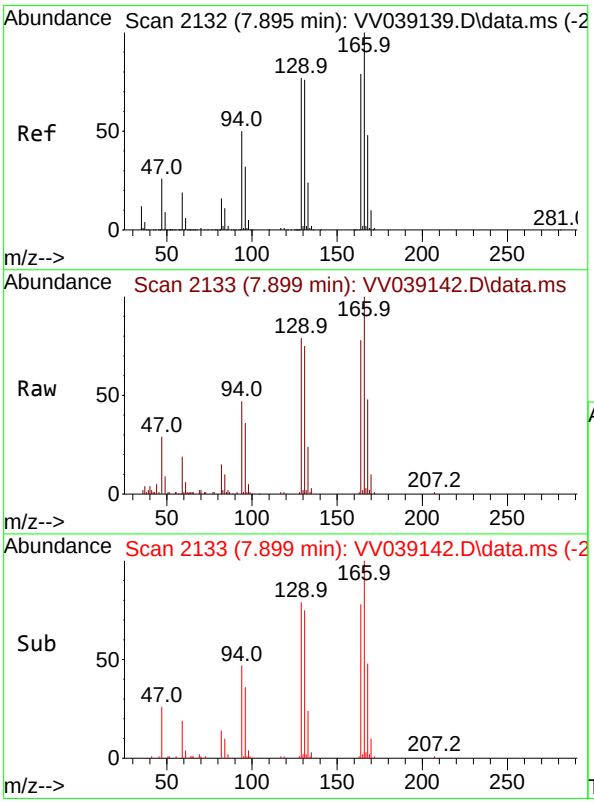
Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.4	68.2
119	31.1	25.6	38.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

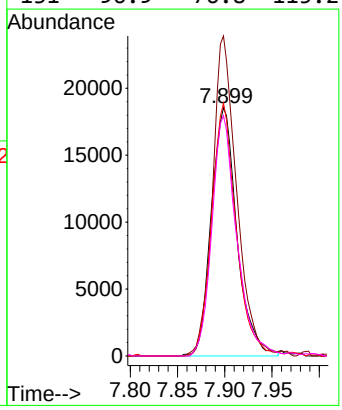
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

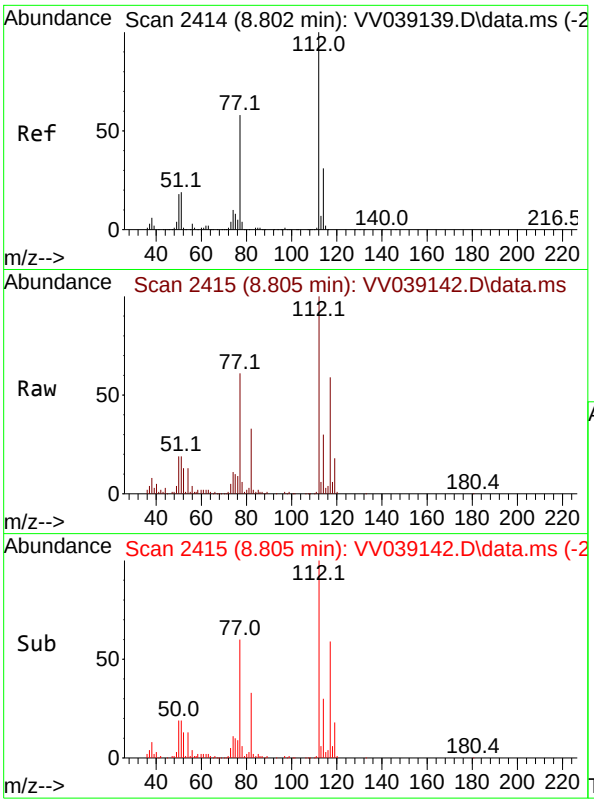


#64
Tetrachloroethene
Concen: 5.143 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:164 Resp: 34795

Ion	Ratio	Lower	Upper
164	100		
166	128.9	101.6	152.4
129	101.9	78.5	117.7
131	96.9	76.8	115.2

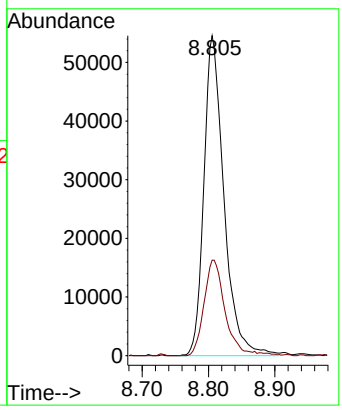




#65
Chlorobenzene
Concen: 5.086 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:112 Resp: 11442

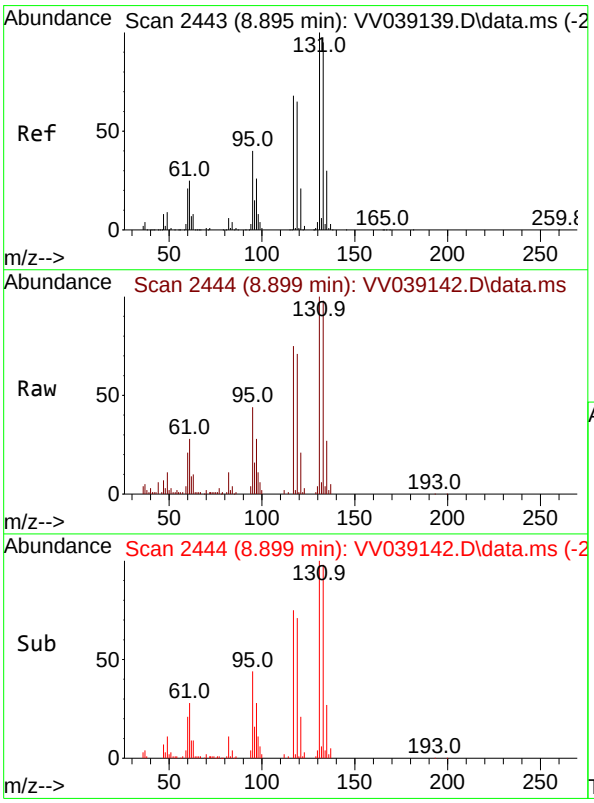
Ion	Ratio	Lower	Upper
112	100		
114	29.8	24.6	37.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

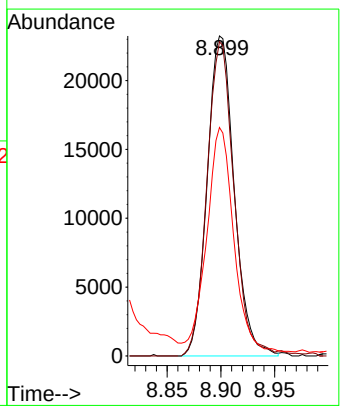
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

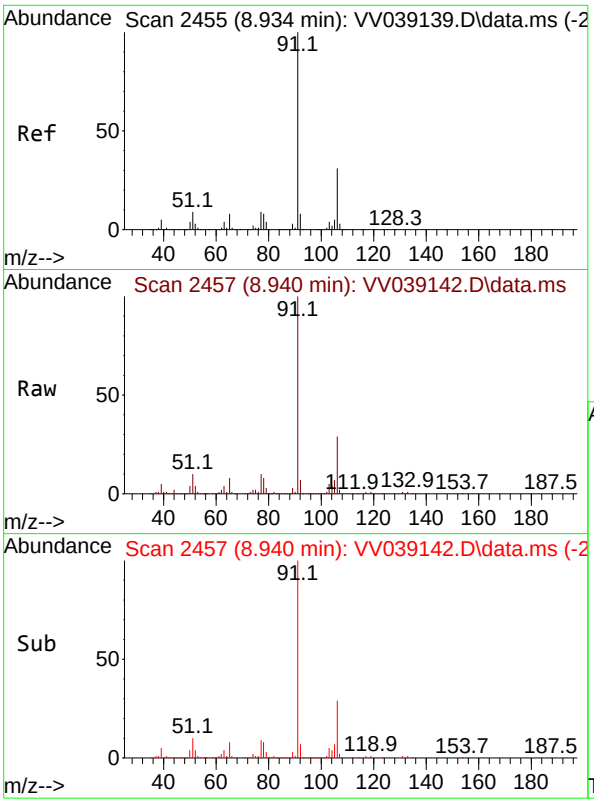


#66
1,1,1,2-Tetrachloroethane
Concen: 5.005 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:131 Resp: 40690

Ion	Ratio	Lower	Upper
131	100		
133	98.7	47.3	141.8
119	70.6	33.3	99.8

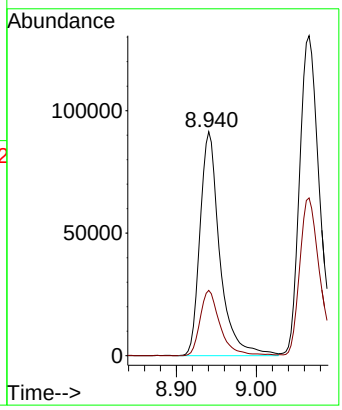




#67
Ethyl Benzene
Concen: 4.633 ug/l
RT: 8.940 min Scan# 24
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 15779

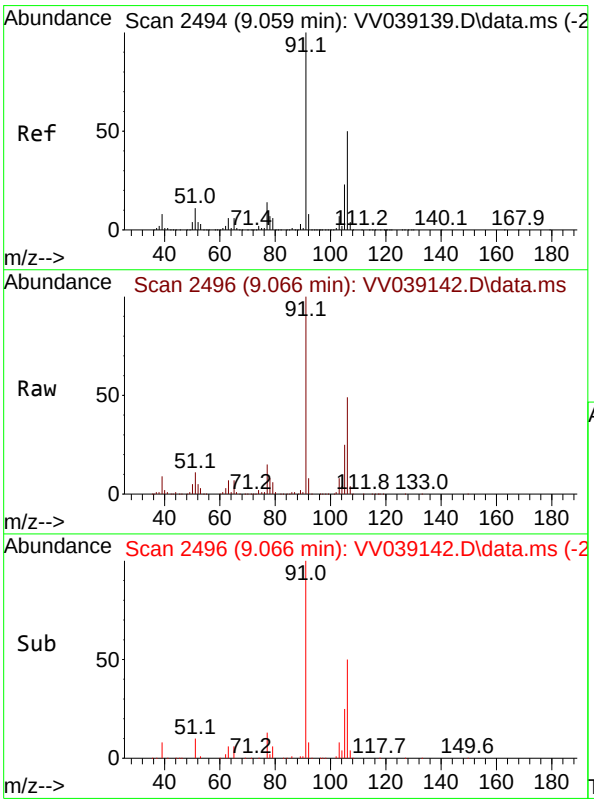
Ion	Ratio	Lower	Upper
91	100		
106	29.1	24.6	37.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

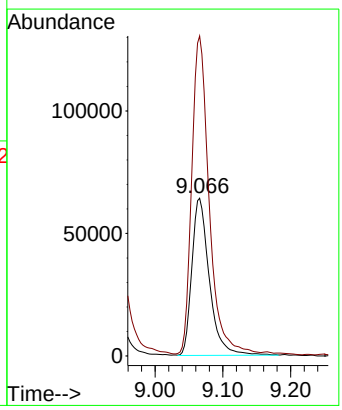
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

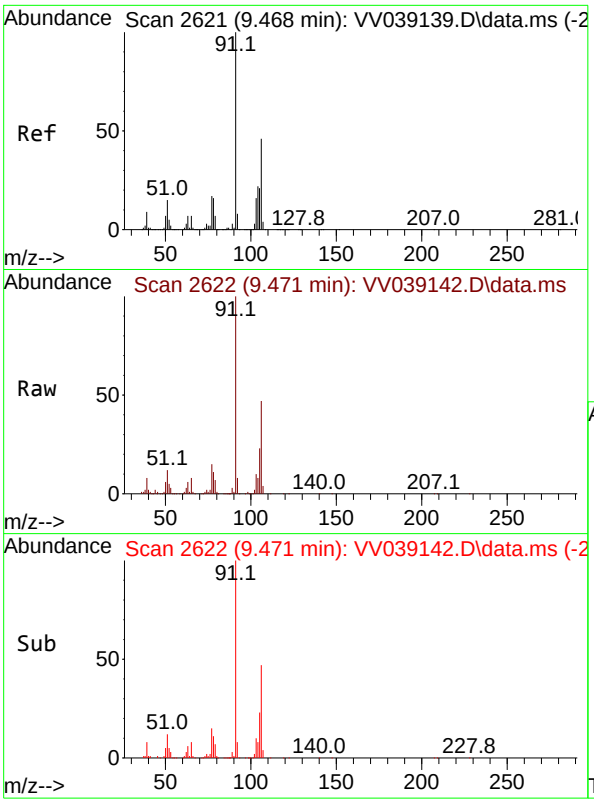


#68
m/p-Xylenes
Concen: 8.762 ug/l
RT: 9.066 min Scan# 2496
Delta R.T. 0.007 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:106 Resp: 115177

Ion	Ratio	Lower	Upper
106	100		
91	200.3	162.5	243.7





#69
o-Xylene
Concen: 4.406 ug/l
RT: 9.471 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

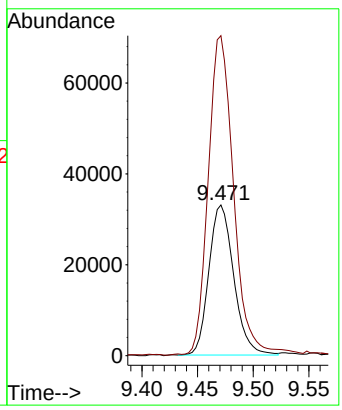
Tgt Ion:106 Resp: 5128

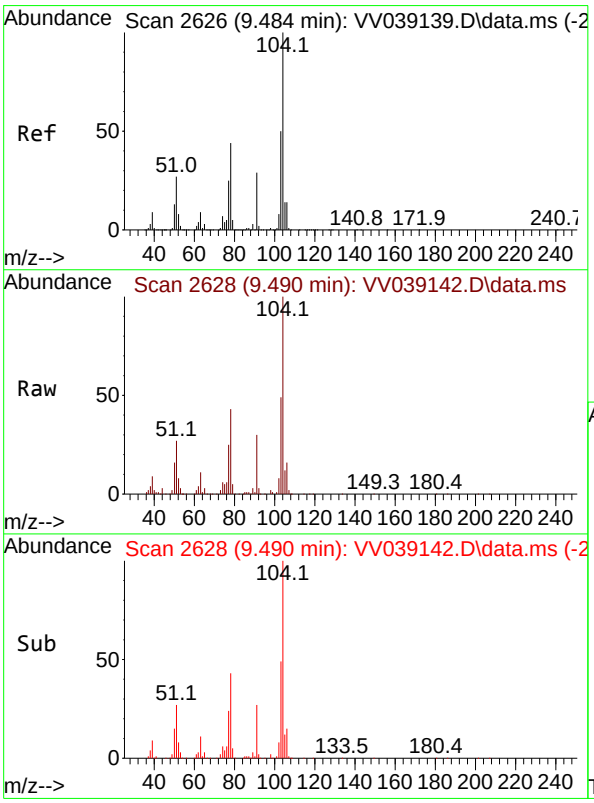
Ion	Ratio	Lower	Upper
106	100		
91	218.4	109.1	327.3

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

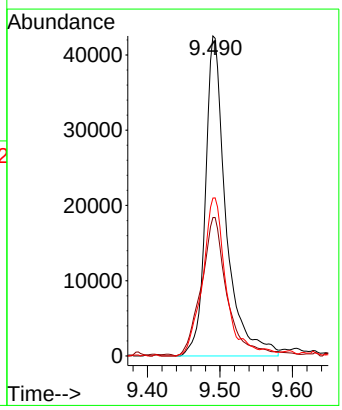


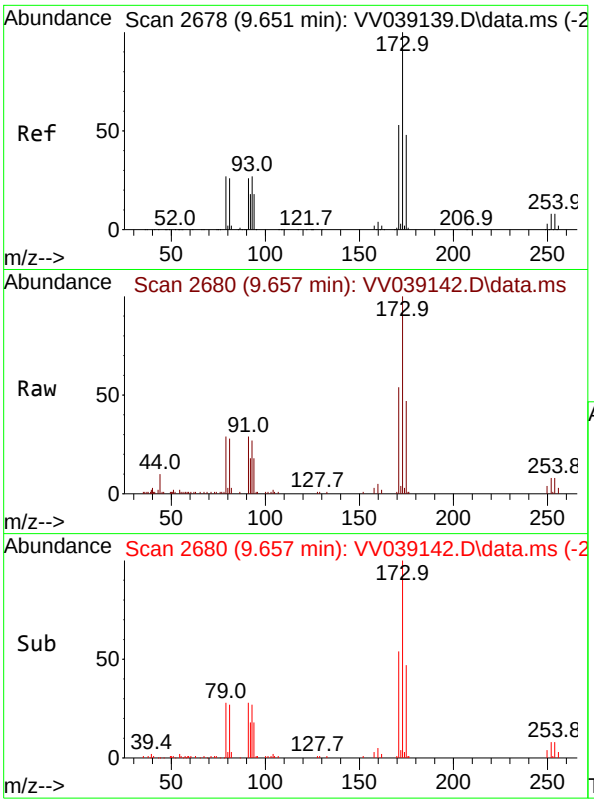


#70
Styrene
Concen: 4.836 ug/l
RT: 9.490 min Scan# 2628
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:104 Resp: 83873

Ion	Ratio	Lower	Upper
104	100		
78	53.9	39.8	59.6
103	55.8	43.4	65.2





#71
Bromoform
Concen: 4.903 ug/l
RT: 9.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

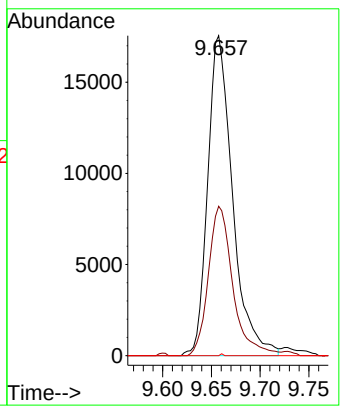
Tgt Ion:173 Resp: 3113

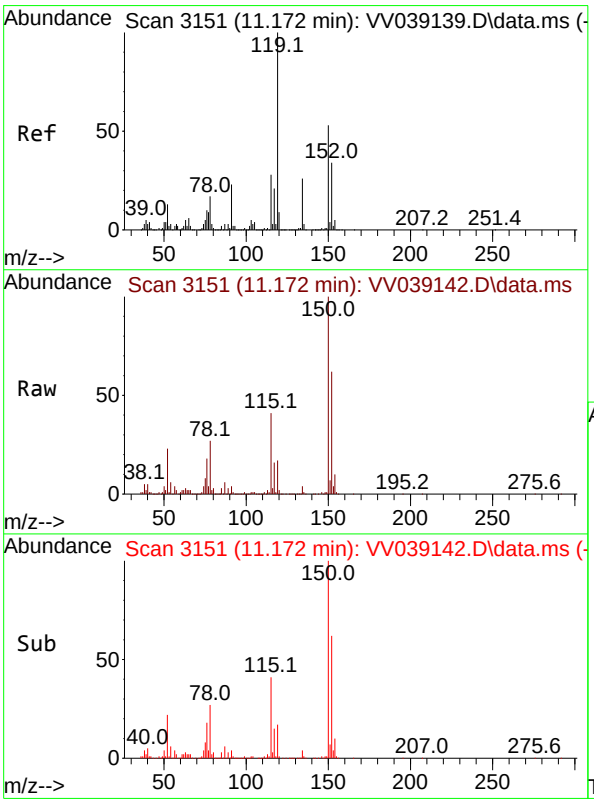
Ion	Ratio	Lower	Upper
173	100		
175	46.0	23.9	71.7
254	0.1	0.1	0.1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

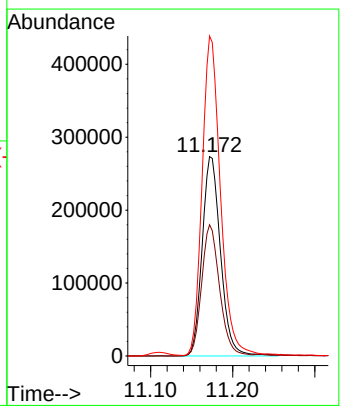


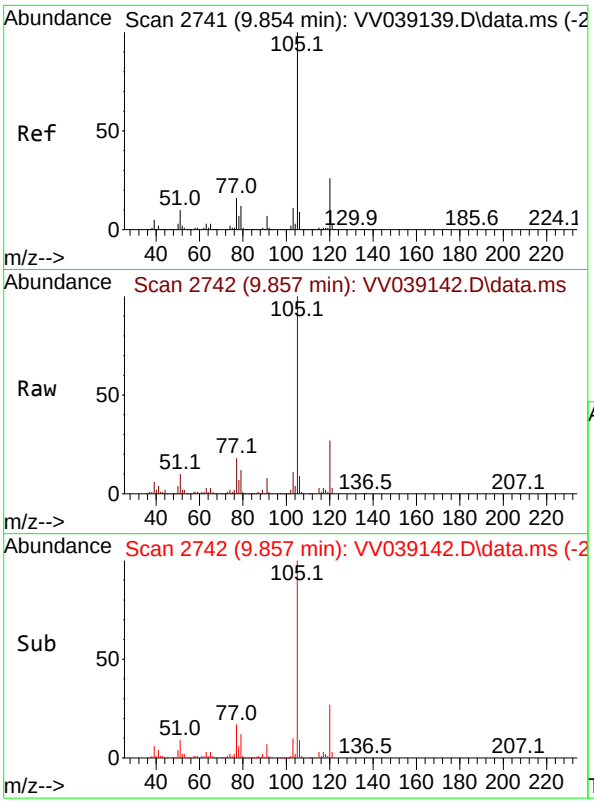


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:152 Resp: 425480

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.8	134.4
150	160.0	0.0	353.8

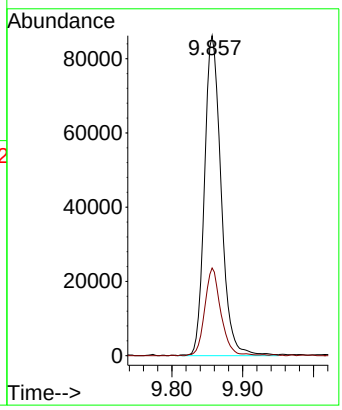




#73
Isopropylbenzene
Concen: 4.545 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 14025

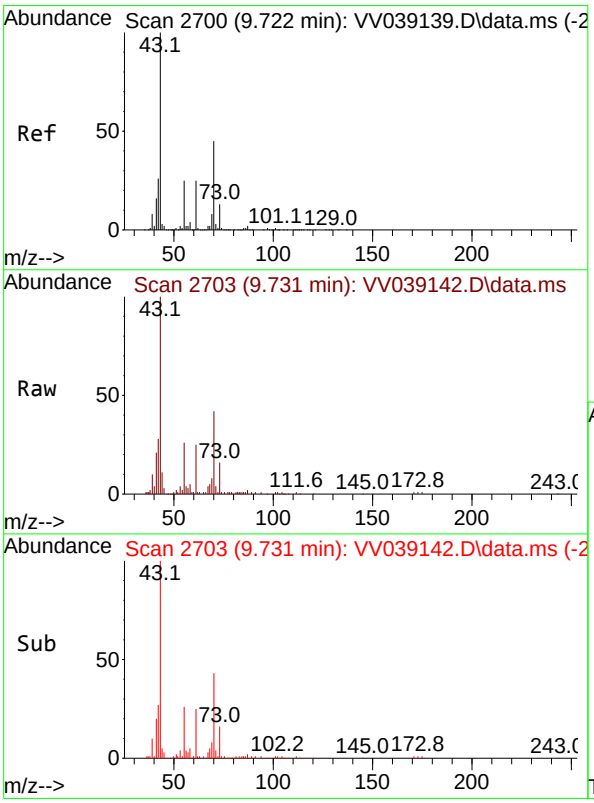
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.1



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

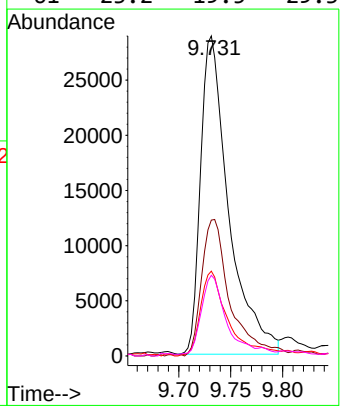
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

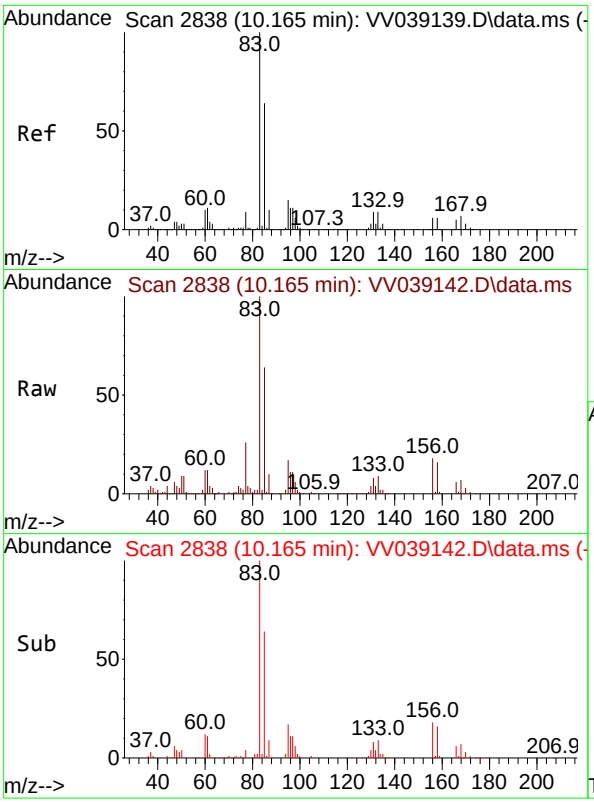


#74
N-amyl acetate
Concen: 4.422 ug/l
RT: 9.731 min Scan# 2703
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 54436

Ion	Ratio	Lower	Upper
43	100		
70	43.3	35.4	53.0
55	26.1	20.6	30.8
61	23.2	19.5	29.3

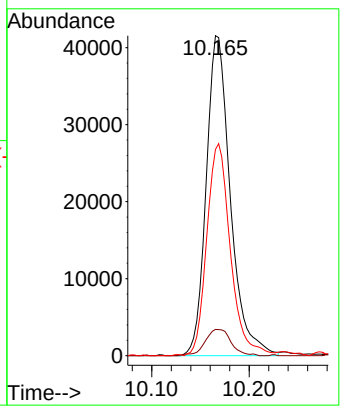




#75
1,1,2,2-Tetrachloroethane
Concen: 5.299 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 7165

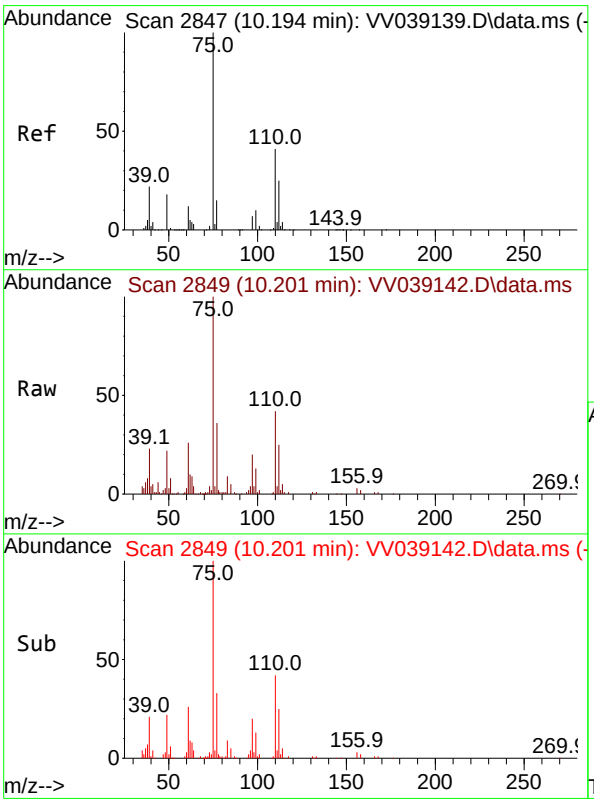
Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.7
85	64.6	31.9	95.9



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

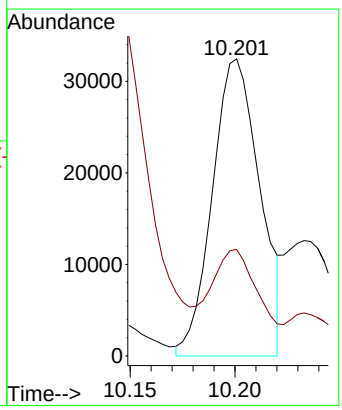
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

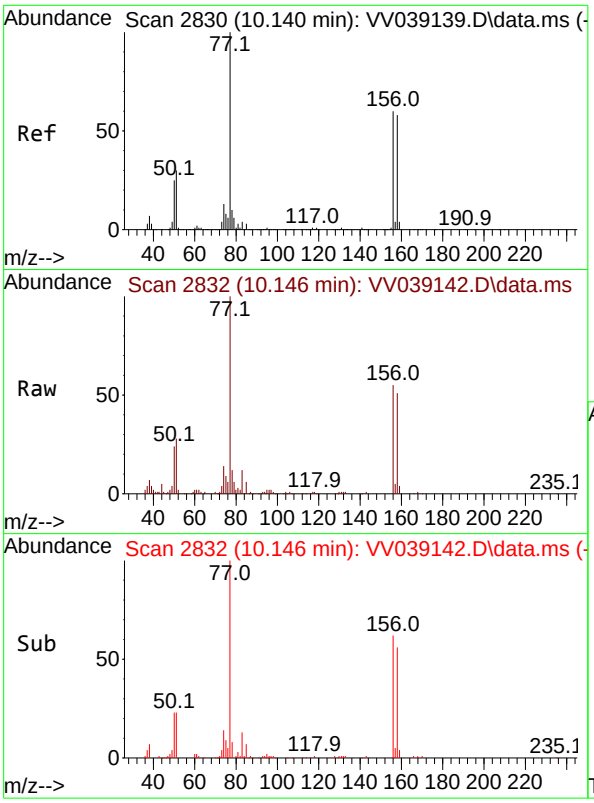


#76
1,2,3-Trichloropropane
Concen: 5.273 ug/l m
RT: 10.201 min Scan# 2849
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 51079

Ion	Ratio	Lower	Upper
75	100		
77	10.8	11.3	33.8#

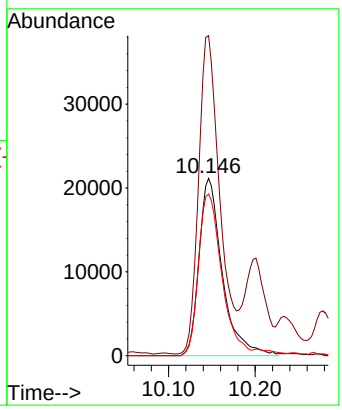




#77
Bromobenzene
Concen: 4.924 ug/l
RT: 10.146 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:156 Resp: 3942

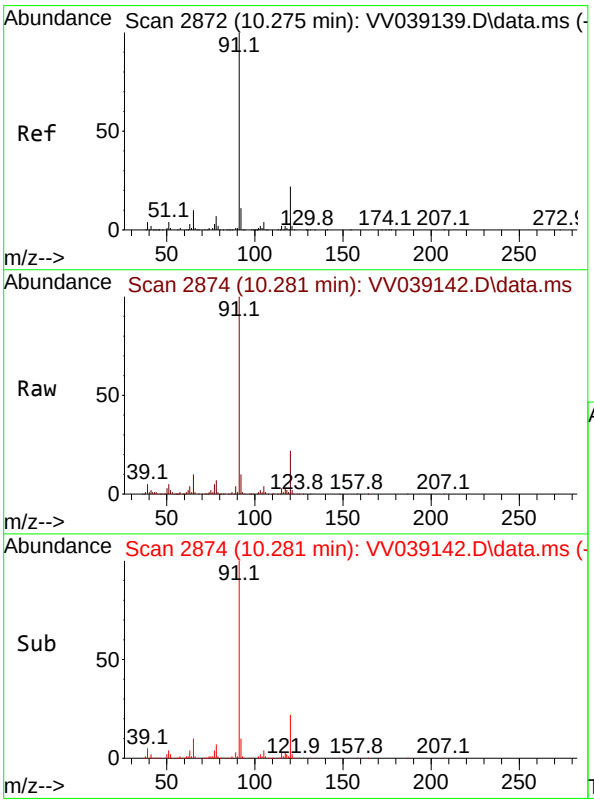
Ion	Ratio	Lower	Upper
156	100		
77	161.3	83.4	250.1
158	91.2	48.8	146.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

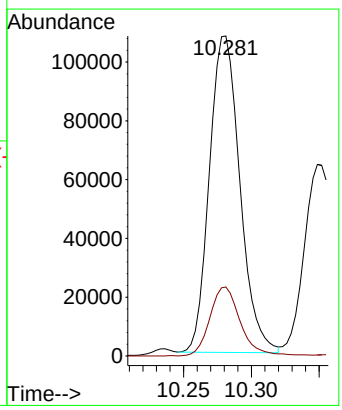
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

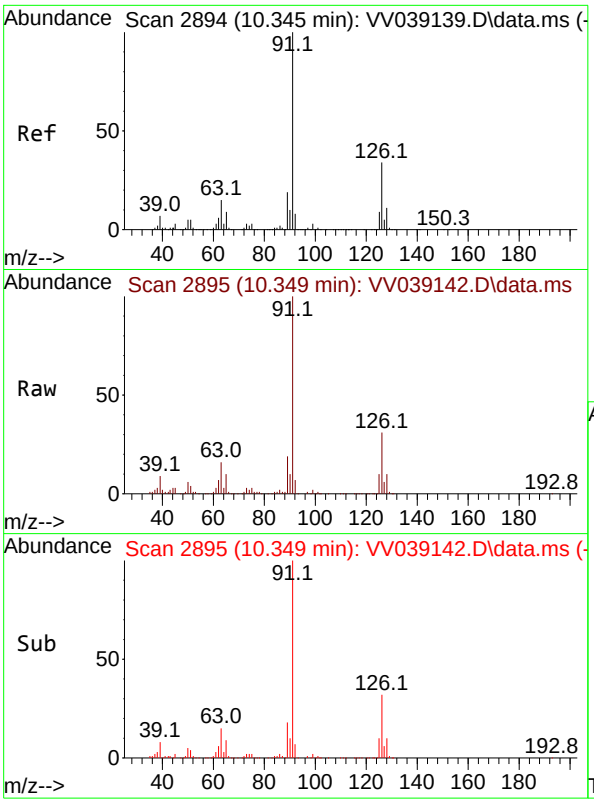


#78
n-propylbenzene
Concen: 4.492 ug/l
RT: 10.281 min Scan# 2874
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 168794

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3

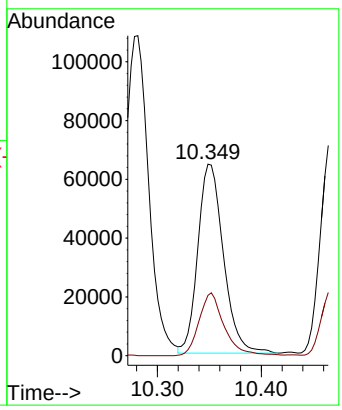




#79
2-Chlorotoluene
Concen: 4.892 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 11000

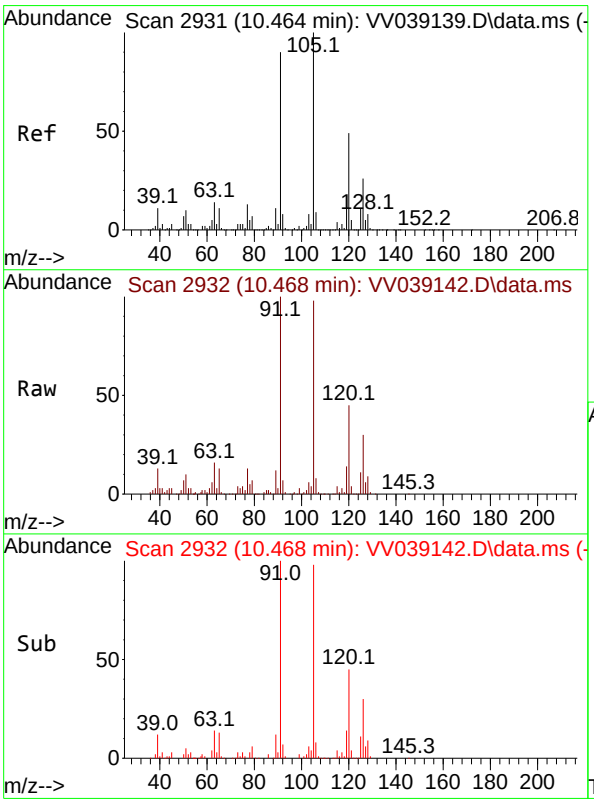
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.7	50.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

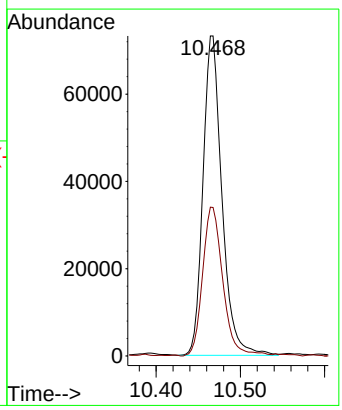
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

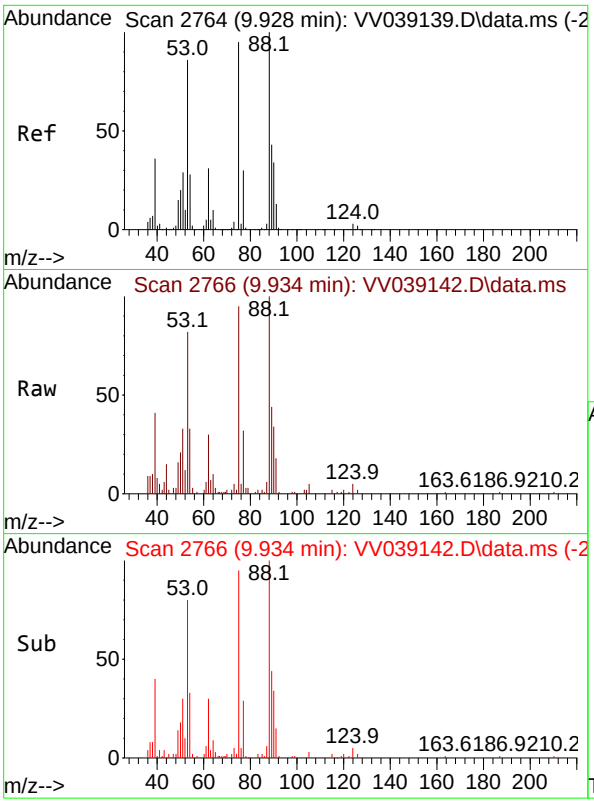


#80
1,3,5-Trimethylbenzene
Concen: 4.474 ug/l
RT: 10.468 min Scan# 2932
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 114749

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 4.499 ug/l
RT: 9.934 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

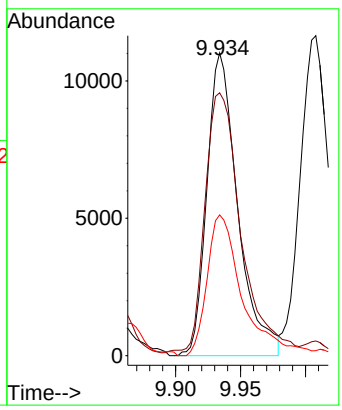
Tgt Ion: 75 Resp: 1815

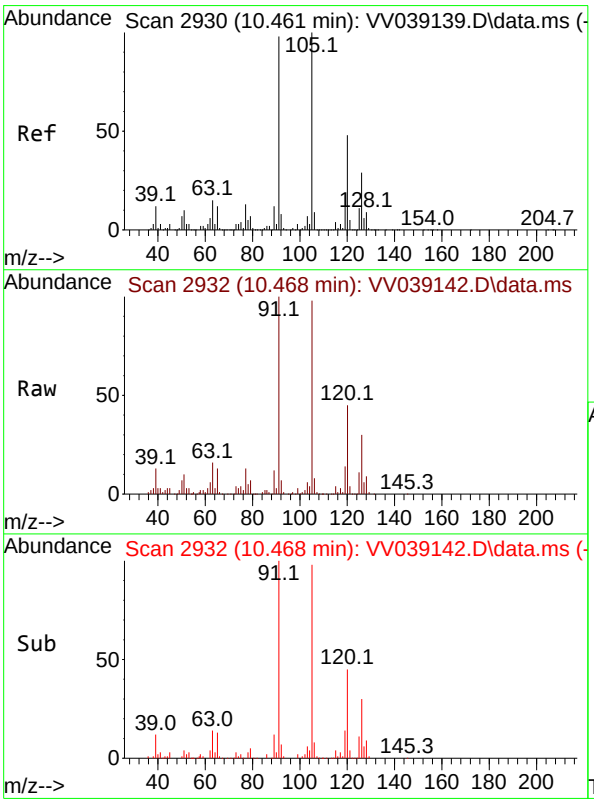
Ion	Ratio	Lower	Upper
75	100		
53	99.7	72.5	108.7
89	53.4	37.2	55.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

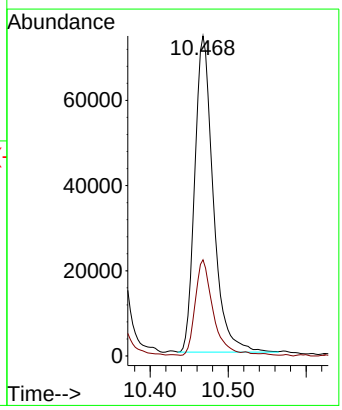


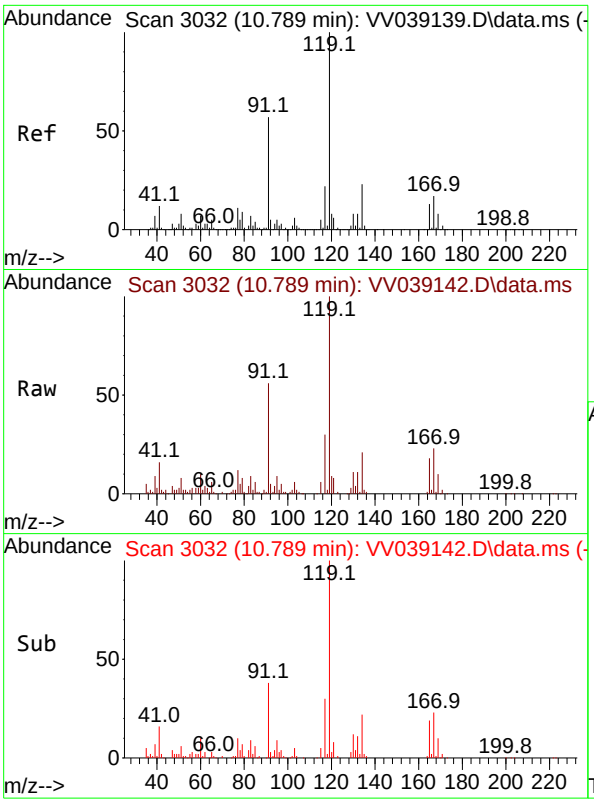


#82
4-Chlorotoluene
Concen: 4.695 ug/l
RT: 10.468 min Scan# 2932
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 122429

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.5	43.6





#83
tert-Butylbenzene
Concen: 4.586 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

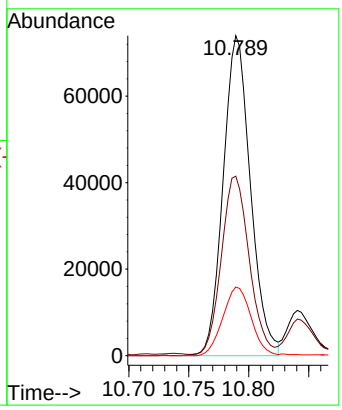
Tgt Ion:119 Resp: 11731

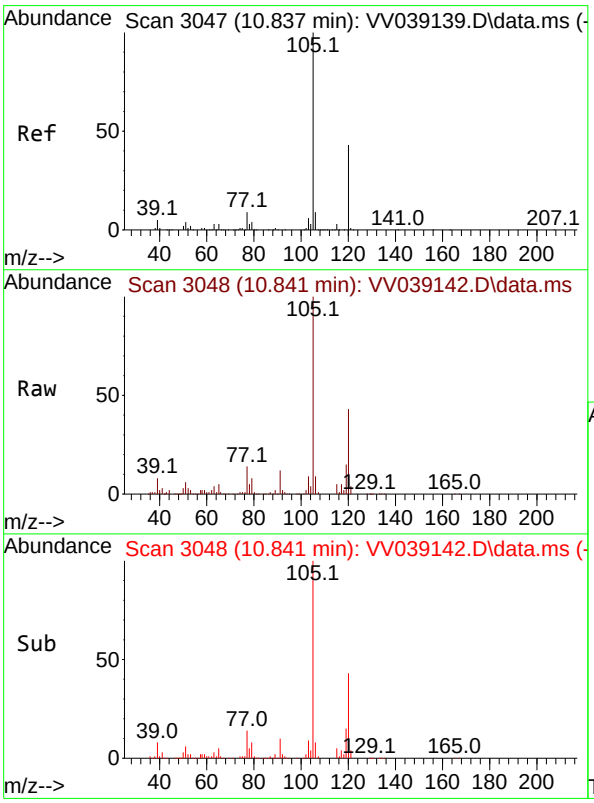
Ion	Ratio	Lower	Upper
119	100		
91	56.4	28.5	85.6
134	22.5	11.5	34.4

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

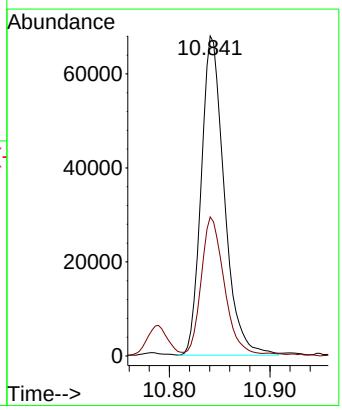


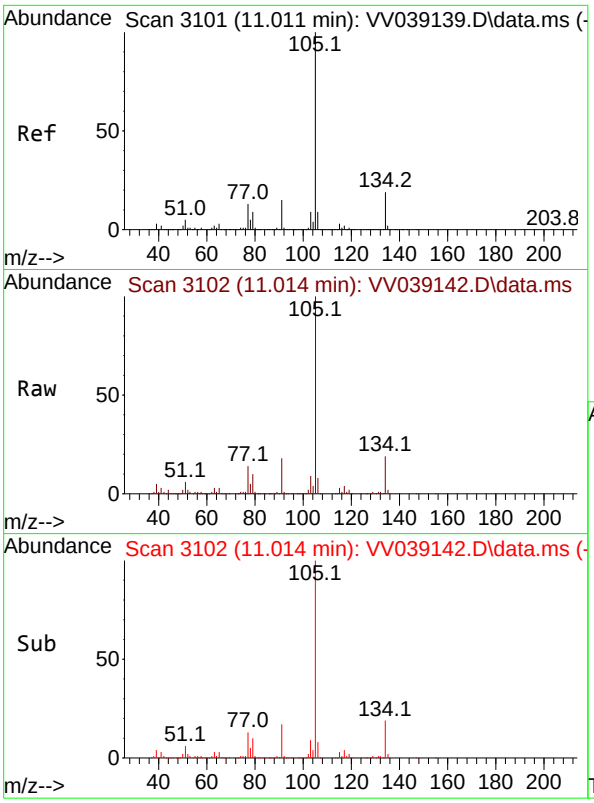


#84
1,2,4-Trimethylbenzene
Concen: 4.343 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 108157

Ion	Ratio	Lower	Upper
105	100		
120	42.0	22.4	67.2

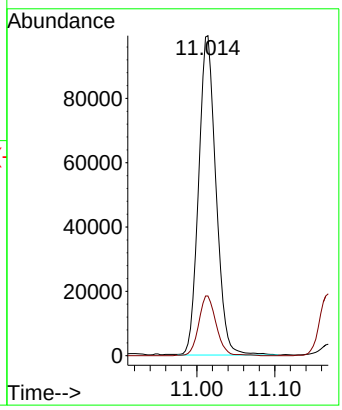




#85
sec-Butylbenzene
Concen: 4.525 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 15352

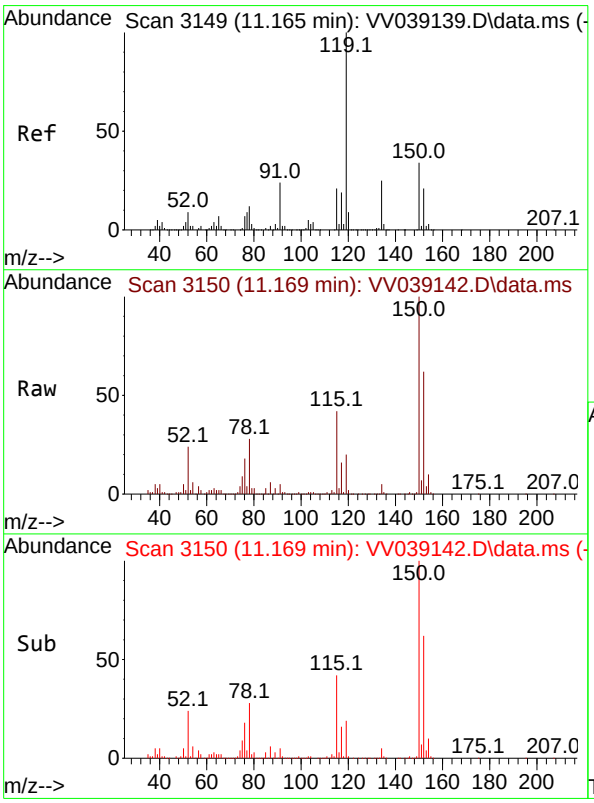
Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.6	28.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

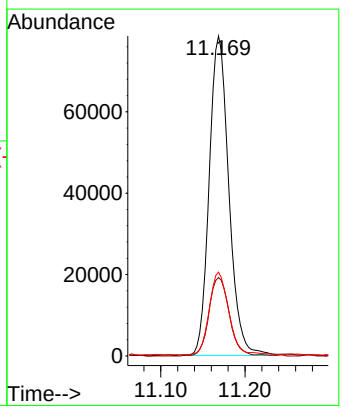
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

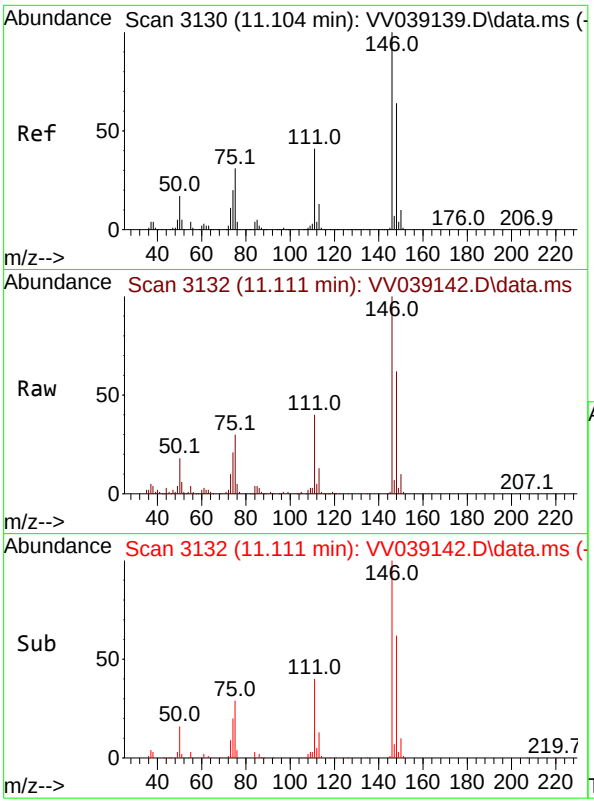


#86
p-Isopropyltoluene
Concen: 4.511 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:119 Resp: 127377

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.7	12.0	36.1

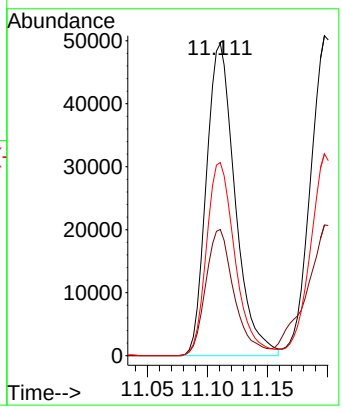




#87
1,3-Dichlorobenzene
Concen: 5.102 ug/l
RT: 11.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 8267

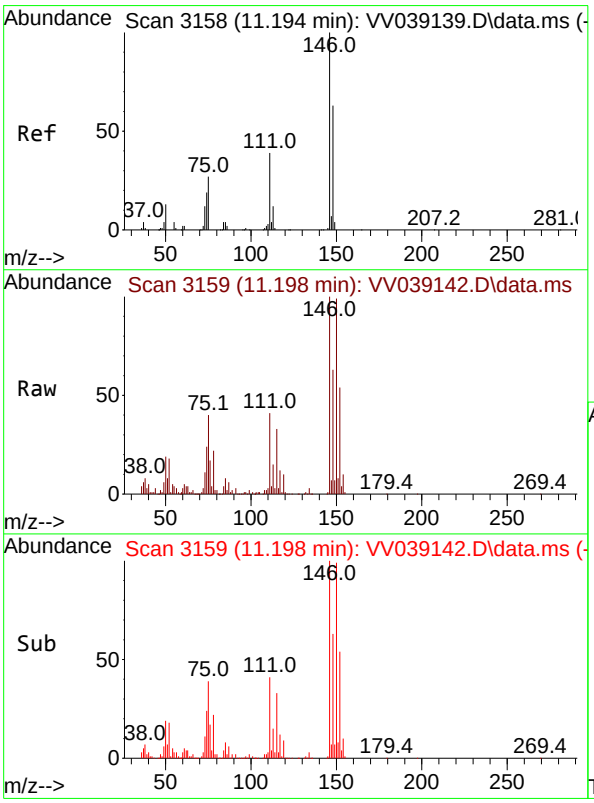
Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.9	62.8
148	62.1	31.8	95.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

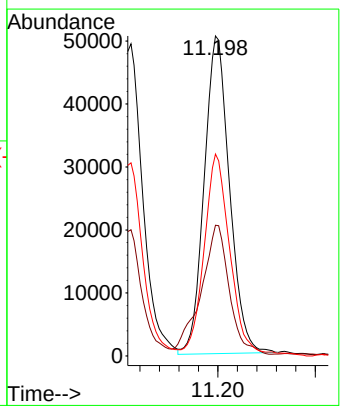
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

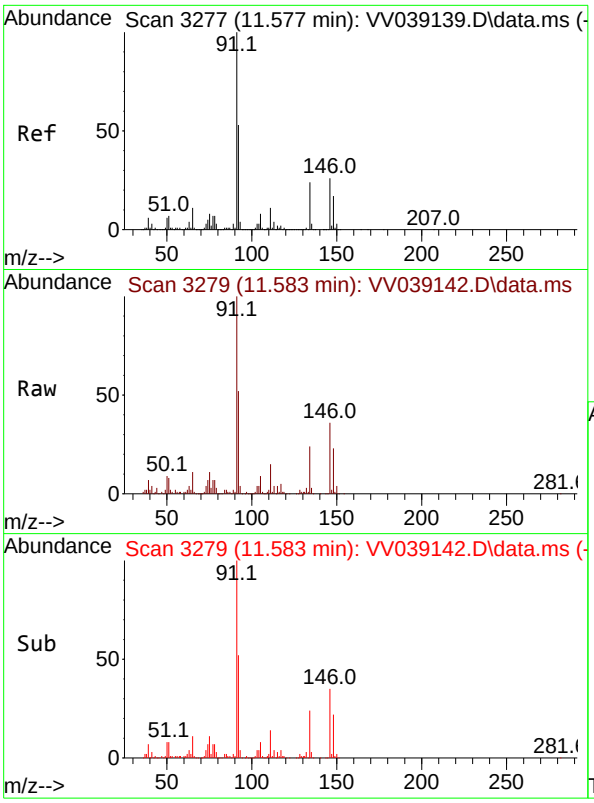


#88
1,4-Dichlorobenzene
Concen: 5.082 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 91001

Ion	Ratio	Lower	Upper
146	100		
111	45.9	20.3	60.8
148	65.7	31.4	94.2





#89
n-Butylbenzene
Concen: 4.443 ug/l
RT: 11.583 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

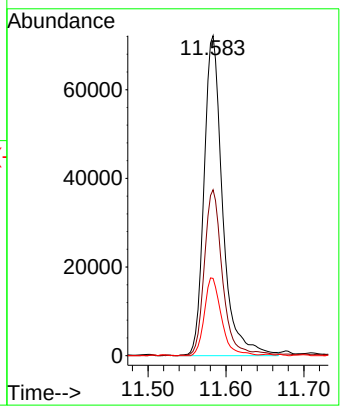
Tgt Ion: 91 Resp: 11982

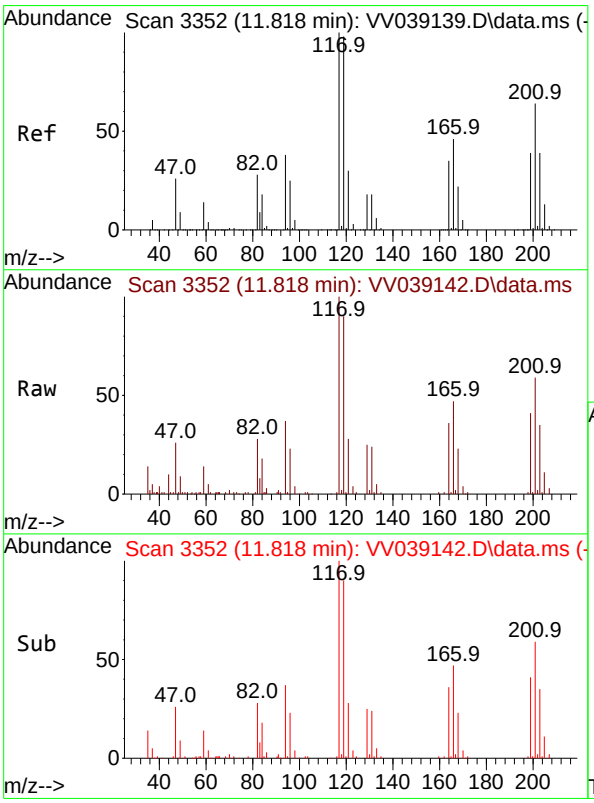
Ion	Ratio	Lower	Upper
91	100		
92	49.9	26.6	79.8
134	22.4	12.1	36.3

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

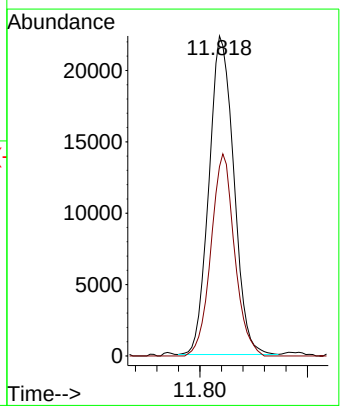


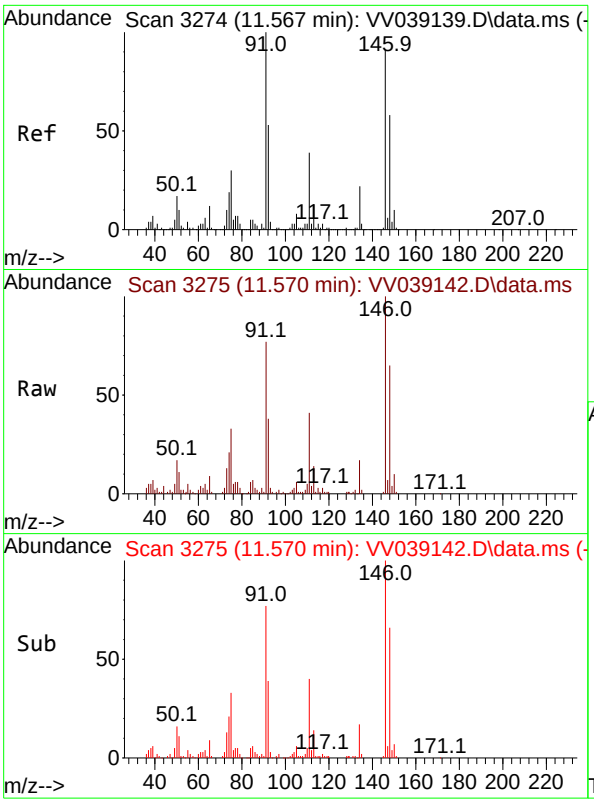


#90
Hexachloroethane
Concen: 5.143 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 35762

Ion	Ratio	Lower	Upper
117	100		
201	60.2	32.3	96.8

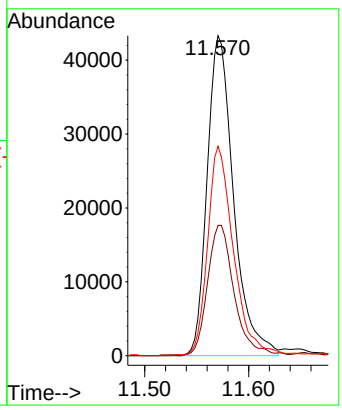




#91
1,2-Dichlorobenzene
Concen: 5.052 ug/l
RT: 11.570 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 7647

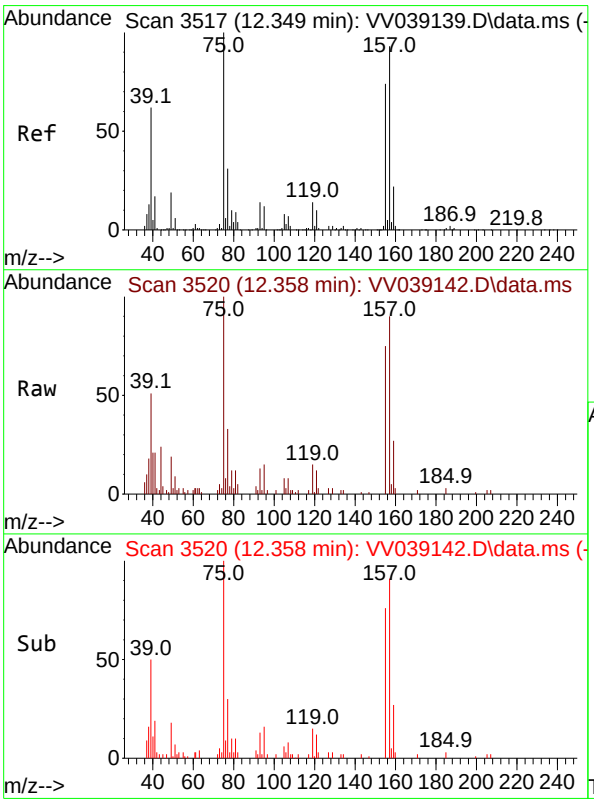
Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.5	64.5
148	64.2	31.9	95.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

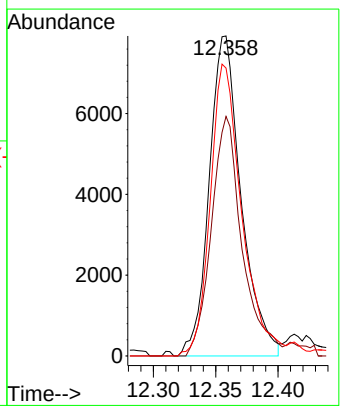
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

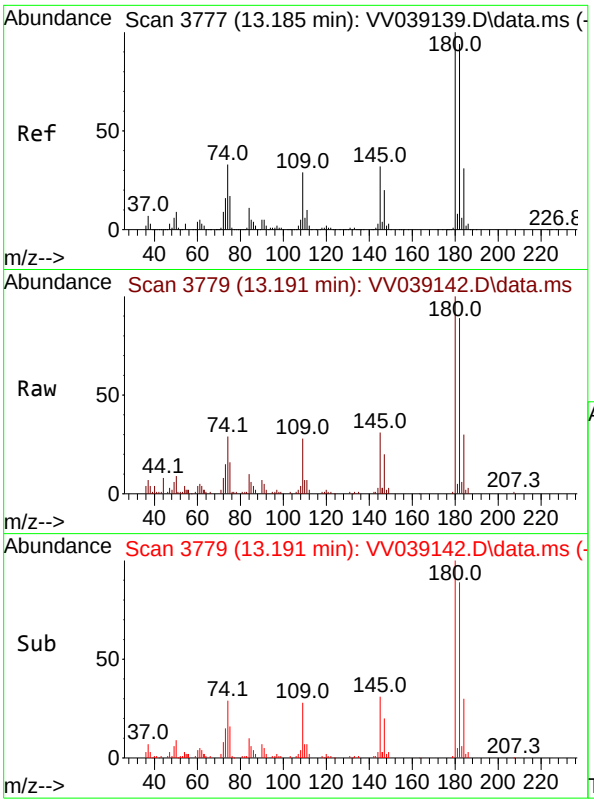


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.211 ug/l
RT: 12.358 min Scan# 3520
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 14163

Ion	Ratio	Lower	Upper
75	100		
155	71.9	38.6	115.8
157	90.2	49.5	148.3

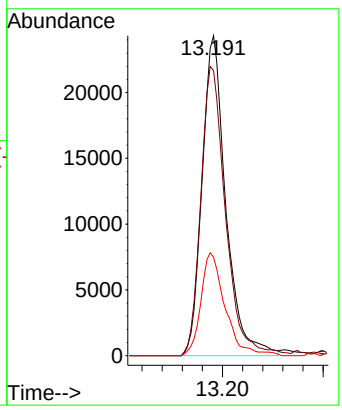




#93
1,2,4-Trichlorobenzene
Concen: 4.583 ug/l
RT: 13.191 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:180 Resp: 3977

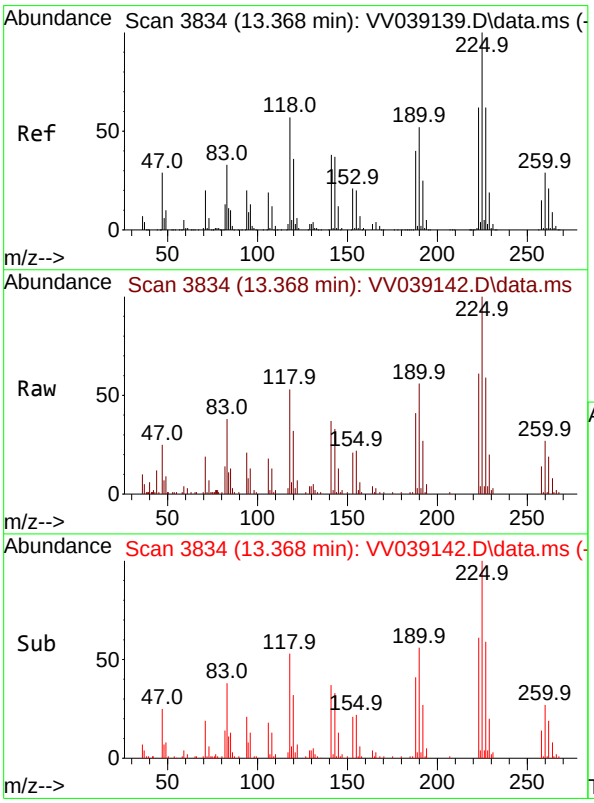
Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.1	141.4
145	32.8	16.3	48.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

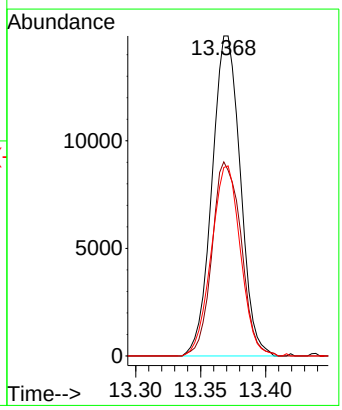
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

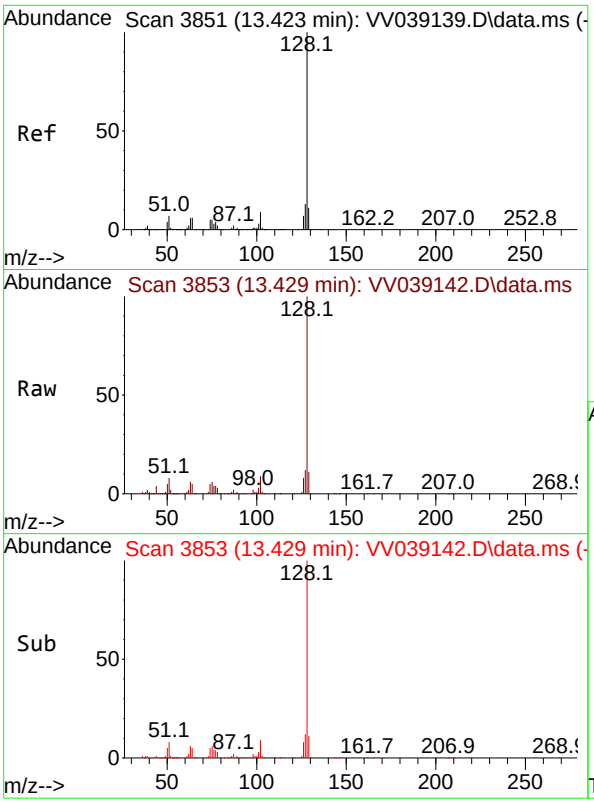


#94
Hexachlorobutadiene
Concen: 5.001 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:225 Resp: 22549

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.6	94.7
227	61.2	31.8	95.4

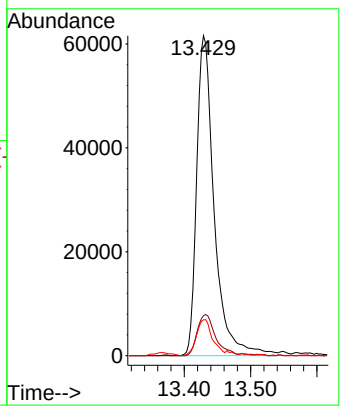




#95
Naphthalene
Concen: 4.062 ug/l
RT: 13.429 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:128 Resp: 11339

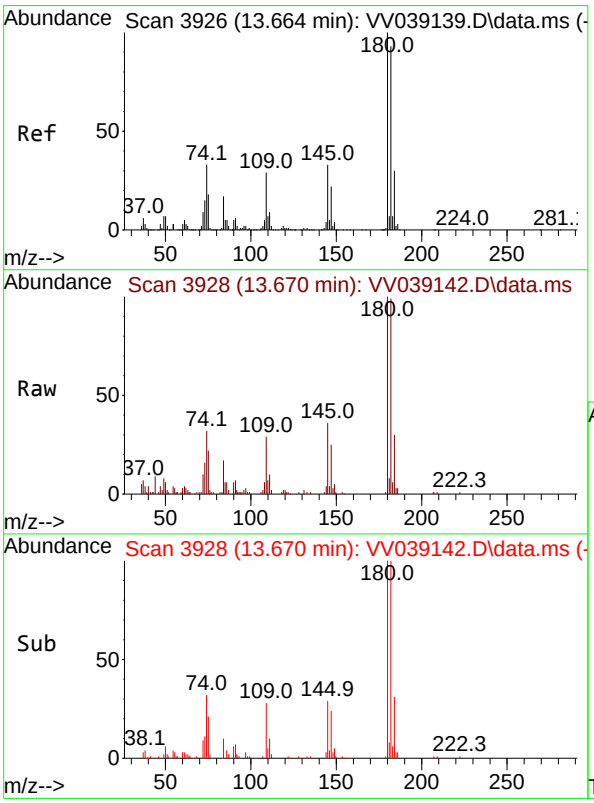
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	10.2	8.6	13.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

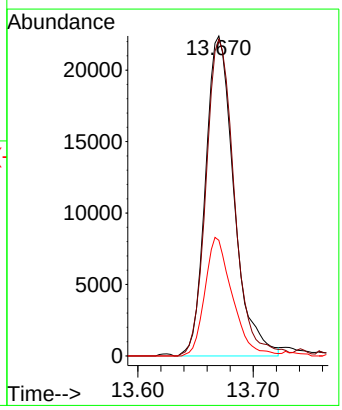
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.317 ug/l
RT: 13.670 min Scan# 3928
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:180 Resp: 38315

Ion	Ratio	Lower	Upper
180	100		
182	98.3	46.9	140.8
145	35.6	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.603	168	406498	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	5.535	114	735855	50.000	ug/l		0.00
63) Chlorobenzene-d5	8.776	117	700418	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	322677	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 81 - 118		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 80 - 119		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 89 - 112		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 85 - 114		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.121	85	7593	1.180	ug/l		98
3) Chloromethane	1.230	50	7695	1.114	ug/l		99
4) Vinyl Chloride	1.297	62	8342	1.128	ug/l		98
6) Chloroethane	1.564	64	7440	0.673	ug/l		96
7) Trichlorofluoromethane	1.725	101	12570	1.174	ug/l		85
8) Diethyl Ether	1.921	74	4650	1.170	ug/l		92
9) 1,1,2-Trichlorotrifluo...	2.082	101	7630	1.198	ug/l		96
12) 1,1-Dichloroethene	2.085	96	7094	1.157	ug/l	#	66
14) Allyl chloride	2.362	41	12383	1.131	ug/l		97
15) Acrylonitrile	2.683	53	23873	5.989	ug/l		96
16) Acetone	2.127	43	28927	3.224	ug/l		96
17) Carbon Disulfide	2.256	76	21708	1.158	ug/l		98
18) Methyl Acetate	2.391	43	9742	1.118	ug/l		98
19) Methyl tert-butyl Ether	2.715	73	21063	1.078	ug/l	#	89
20) Methylene Chloride	2.458	84	16152	0.632	ug/l		90
21) trans-1,2-Dichloroethene	2.709	96	7797	1.195	ug/l		92
22) Diisopropyl ether	3.220	45	21620	1.032	ug/l	#	34
23) Vinyl Acetate	3.204	43	91192	4.977	ug/l		99
24) 1,1-Dichloroethane	3.121	63	15790	1.233	ug/l	#	94
25) 2-Butanone	3.921	43	22515m	4.862	ug/l		
26) 2,2-Dichloropropane	3.815	77	15492m	1.369	ug/l		
27) cis-1,2-Dichloroethene	3.834	96	8138	1.131	ug/l		91
28) Bromochloromethane	4.162	49	6039	1.068	ug/l	#	53
29) Tetrahydrofuran	4.262	42	13621	4.619	ug/l	#	65
30) Chloroform	4.288	83	15288	1.143	ug/l		96
32) 1,1,1-Trichloroethane	4.519	97	12926	1.116	ug/l		93
36) 1,1-Dichloropropene	4.764	75	9572m	1.063	ug/l		
37) Ethyl Acetate	4.030	43	12136m	1.098	ug/l		
38) Carbon Tetrachloride	4.735	117	13098m	1.207	ug/l		
39) Methylcyclohexane	6.050	83	9159	0.848	ug/l		91
40) Benzene	5.027	78	28487	0.978	ug/l		98
41) Methacrylonitrile	4.223	41	2717m	2.427	ug/l		
42) 1,2-Dichloroethane	5.059	62	10892	1.067	ug/l		95
43) Isopropyl Acetate	5.236	43	12786m	0.840	ug/l		
44) Trichloroethene	5.850	130	6408	0.953	ug/l		84
45) 1,2-Dichloropropane	6.104	63	6838	0.945	ug/l		93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	6.249	93	5835	1.053	ug/l		89
47) Bromodichloromethane	6.439	83	12206	1.066	ug/l	#	90
48) Methyl methacrylate	6.371	41	7232m	1.038	ug/l		
49) 1,4-Dioxane	6.333	88	2721m	24.855	ug/l		
51) 4-Methyl-2-Pentanone	7.165	43	33797	3.472	ug/l		96
52) Toluene	7.326	92	13265	0.786	ug/l		87
53) t-1,3-Dichloropropene	7.606	75	8060	0.807	ug/l		90
54) cis-1,3-Dichloropropene	6.973	75	8754	0.794	ug/l	#	93
55) 1,1,2-Trichloroethane	7.776	97	8140	1.075	ug/l		91
56) Ethyl methacrylate	7.747	69	7455m	0.829	ug/l		
57) 1,3-Dichloropropane	7.956	76	11732	0.982	ug/l		94
58) 2-Chloroethyl Vinyl ether	6.841	63	10011	11.289	ug/l		98
59) 2-Hexanone	8.091	43	17015	4.307	ug/l		98
60) Dibromochloromethane	8.172	129	9122	1.057	ug/l		87
61) 1,2-Dibromoethane	8.288	107	7129	0.921	ug/l		90
64) Tetrachloroethene	7.899	164	5814	0.991	ug/l		90
65) Chlorobenzene	8.812	112	20007	1.025	ug/l	#	88
66) 1,1,1,2-Tetrachloroethane	8.902	131	7603	1.079	ug/l	#	61
67) Ethyl Benzene	8.947	91	24171	0.818	ug/l		94
68) m/p-Xylenes	9.072	106	16239	1.425	ug/l		98
69) o-Xylene	9.477	106	7250	0.718	ug/l		79
70) Styrene	9.503	104	11594	2.083	ug/l	#	80
71) Bromoform	9.667	173	5558	1.009	ug/l	#	94
73) Isopropylbenzene	9.860	105	20820	0.890	ug/l		98
74) N-amyl acetate	9.747	43	6654	0.713	ug/l	#	91
75) 1,1,2,2-Tetrachloroethane	10.169	83	12746	1.243	ug/l		95
76) 1,2,3-Trichloropropane	10.207	75	8871	1.207	ug/l		100
77) Bromobenzene	10.159	156	6311	1.039	ug/l		93
78) n-propylbenzene	10.284	91	24996	0.877	ug/l		96
79) 2-Chlorotoluene	10.355	91	13640	0.800	ug/l		89
80) 1,3,5-Trimethylbenzene	10.471	105	15886	0.817	ug/l		96
82) 4-Chlorotoluene	10.474	91	15363	0.777	ug/l		91
83) tert-Butylbenzene	10.789	119	18552	0.956	ug/l		99
84) 1,2,4-Trimethylbenzene	10.847	105	15048	0.797	ug/l		95
85) sec-Butylbenzene	11.014	105	23268	0.904	ug/l		98
86) p-Isopropyltoluene	11.168	119	18549	0.866	ug/l		86
87) 1,3-Dichlorobenzene	11.117	146	12747	1.037	ug/l		97
88) 1,4-Dichlorobenzene	11.201	146	16279m	1.199	ug/l		
89) n-Butylbenzene	11.586	91	17079	0.835	ug/l		94
90) Hexachloroethane	11.818	117	6736	1.277	ug/l		94
91) 1,2-Dichlorobenzene	11.577	146	12486	1.088	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.361	75	3071	0.690	ug/l		75
93) 1,2,4-Trichlorobenzene	13.197	180	6637	1.008	ug/l		99
94) Hexachlorobutadiene	13.368	225	4406	1.288	ug/l		95
95) Naphthalene	13.438	128	19706m	0.931	ug/l		
96) 1,2,3-Trichlorobenzene	13.676	180	7184	1.067	ug/l		97

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

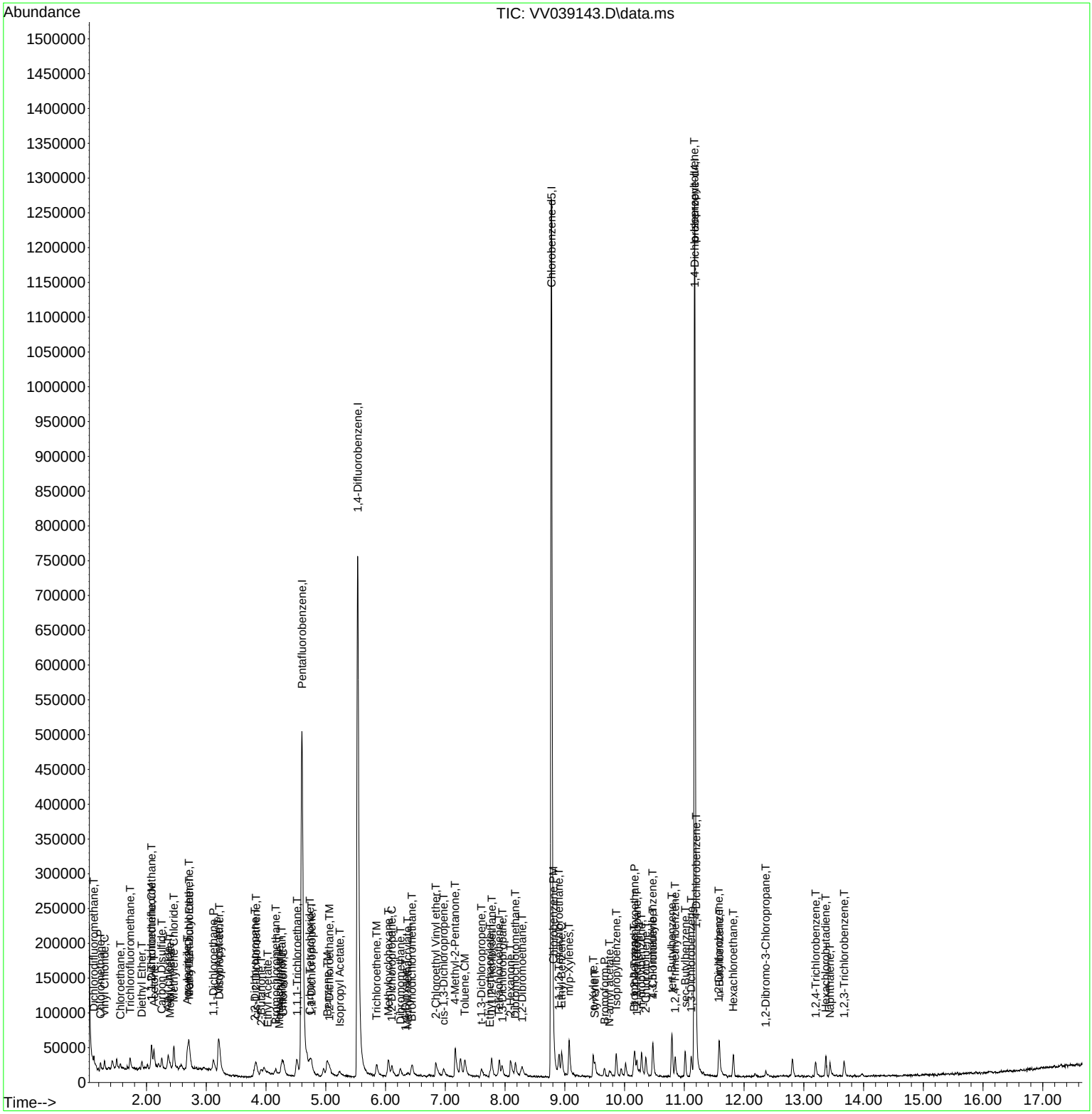
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

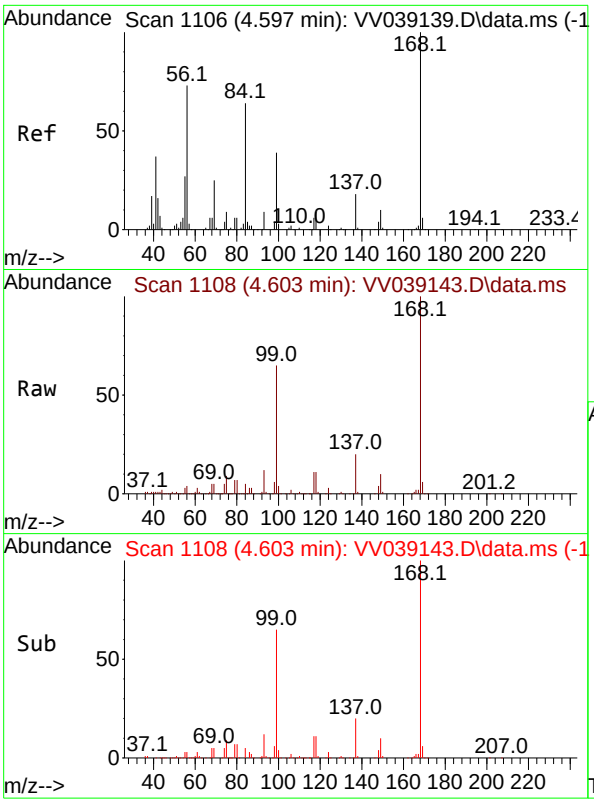
Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

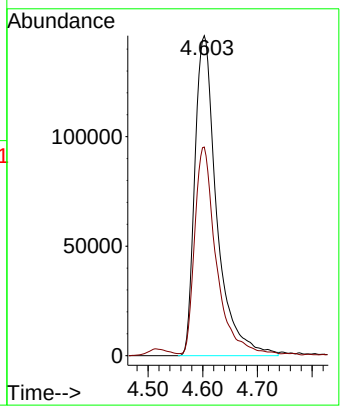




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:168 Resp: 40649

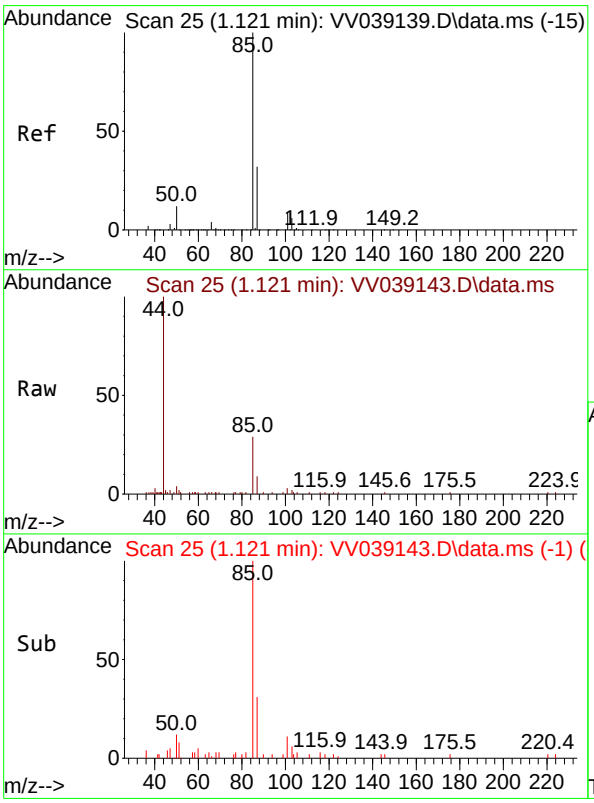
Ion	Ratio	Lower	Upper
168	100		
99	64.6	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

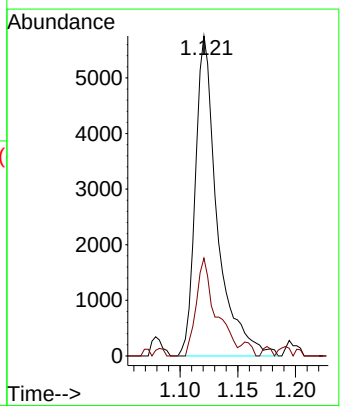
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

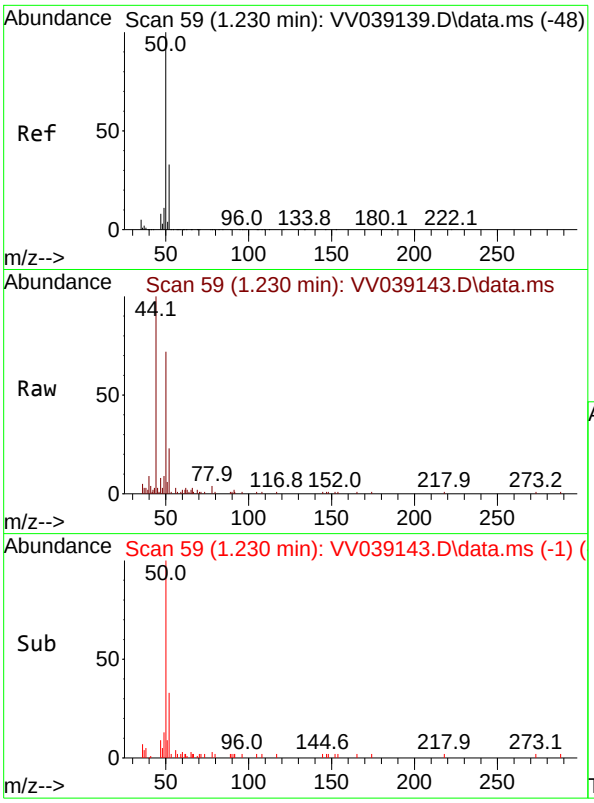


#2
Dichlorodifluoromethane
Concen: 1.180 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 85 Resp: 7593

Ion	Ratio	Lower	Upper
85	100		
87	30.5	16.0	47.9

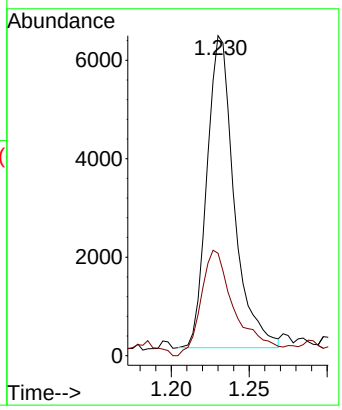




#3
Chloromethane
Concen: 1.114 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 50 Resp: 769

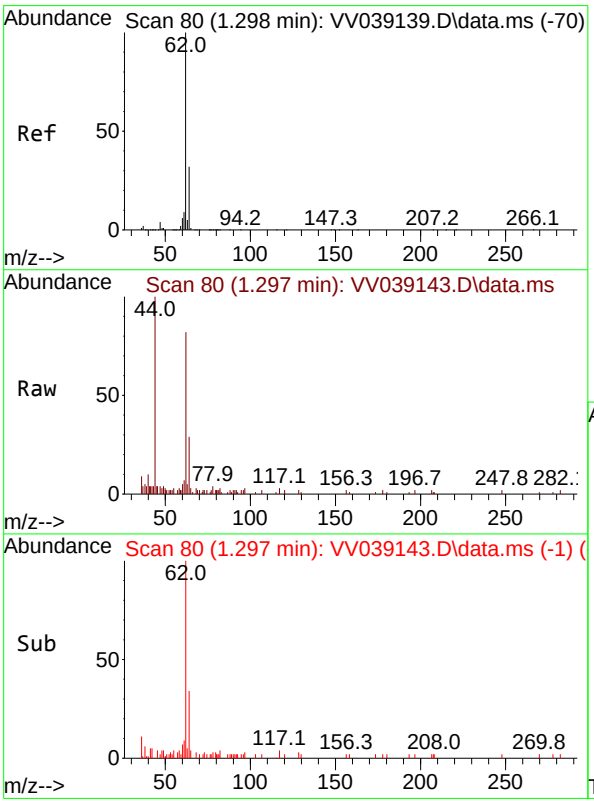
Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.0	39.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

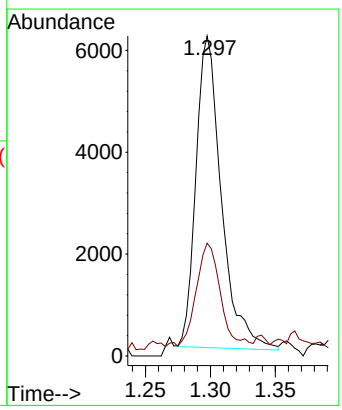
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

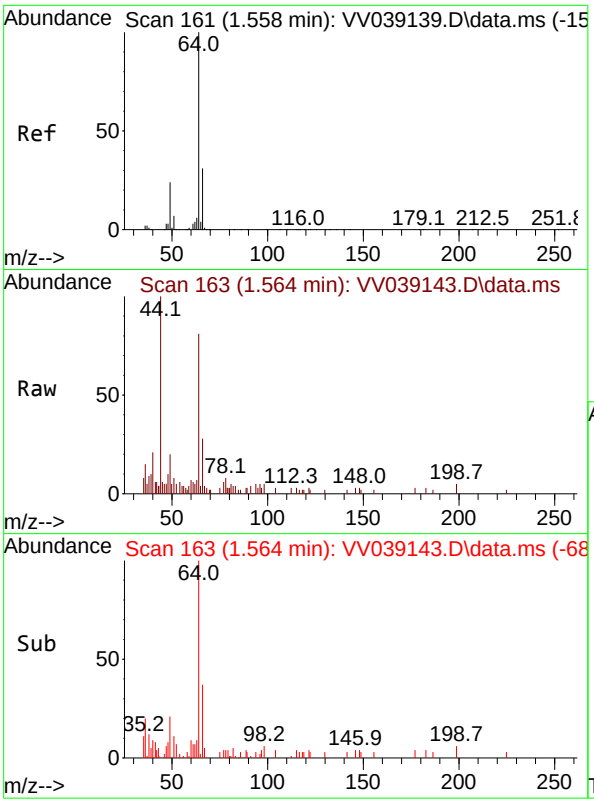


#4
Vinyl Chloride
Concen: 1.128 ug/l
RT: 1.297 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 62 Resp: 8342

Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.6	38.4

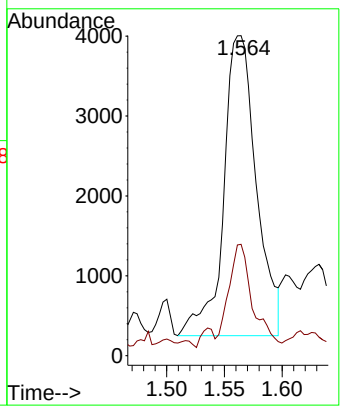




#6
Chloroethane
Concen: 0.673 ug/l
RT: 1.564 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 64 Resp: 744

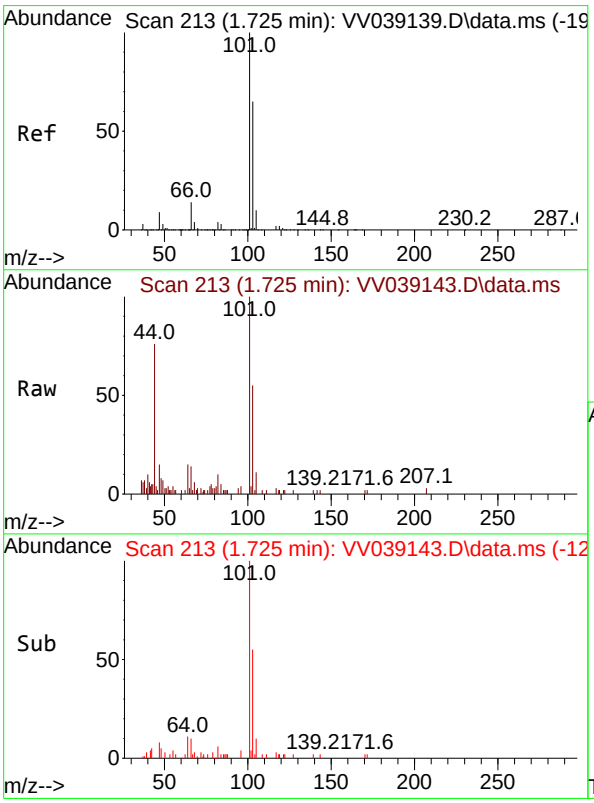
Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	36.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

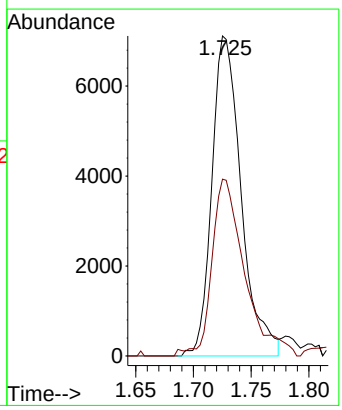
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

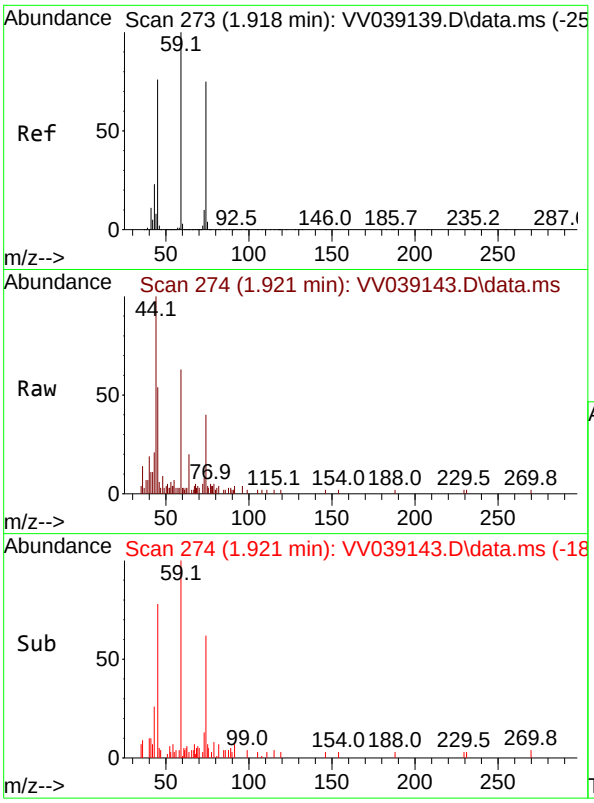


#7
Trichlorofluoromethane
Concen: 1.174 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:101 Resp: 12570

Ion	Ratio	Lower	Upper
101	100		
103	53.2	52.0	78.0

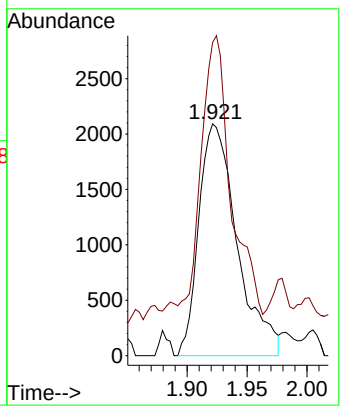




#8
Diethyl Ether
Concen: 1.170 ug/l
RT: 1.921 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 74 Resp: 465

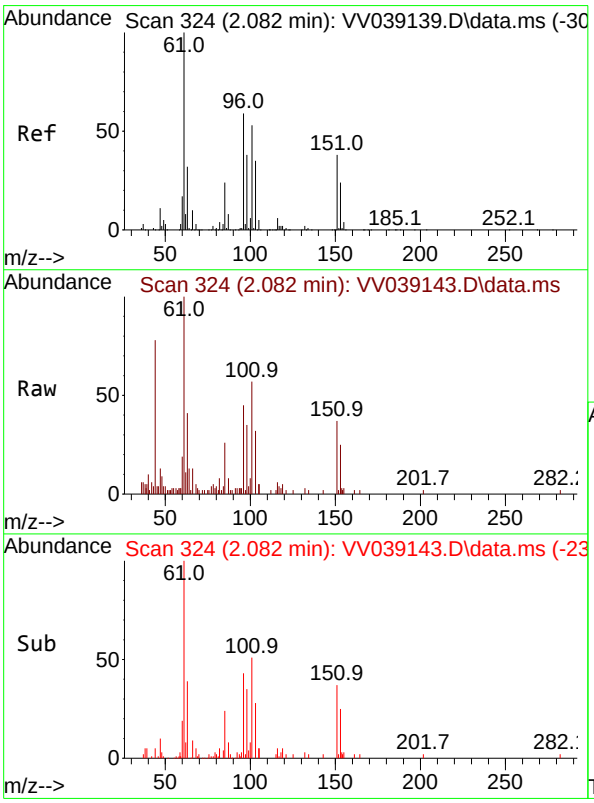
Ion	Ratio	Lower	Upper
74	100		
45	107.4	49.6	148.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

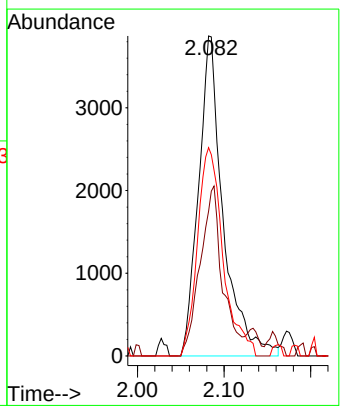
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

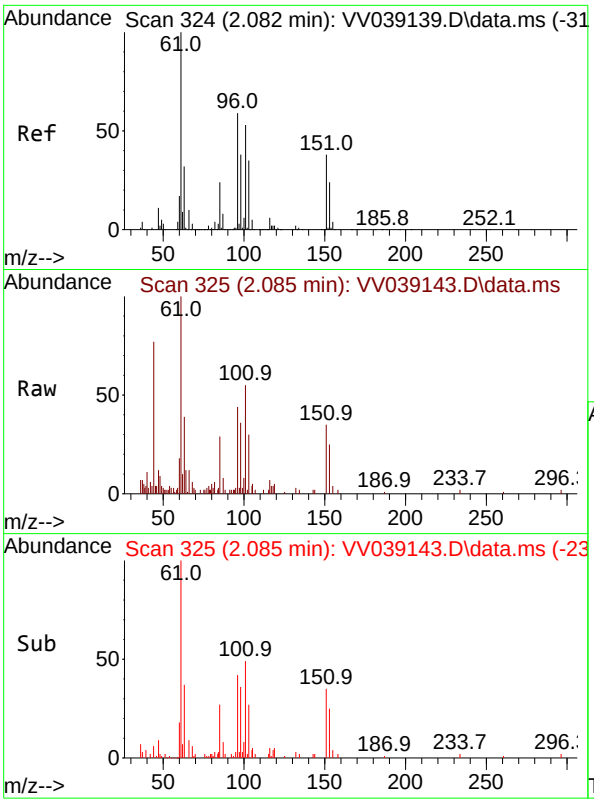


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.198 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:101 Resp: 7630

Ion	Ratio	Lower	Upper
101	100		
85	48.1	36.2	54.2
151	67.5	56.3	84.5

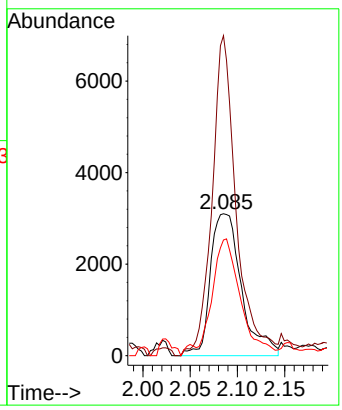




#12
1,1-Dichloroethene
Concen: 1.157 ug/l
RT: 2.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 96 Resp: 709

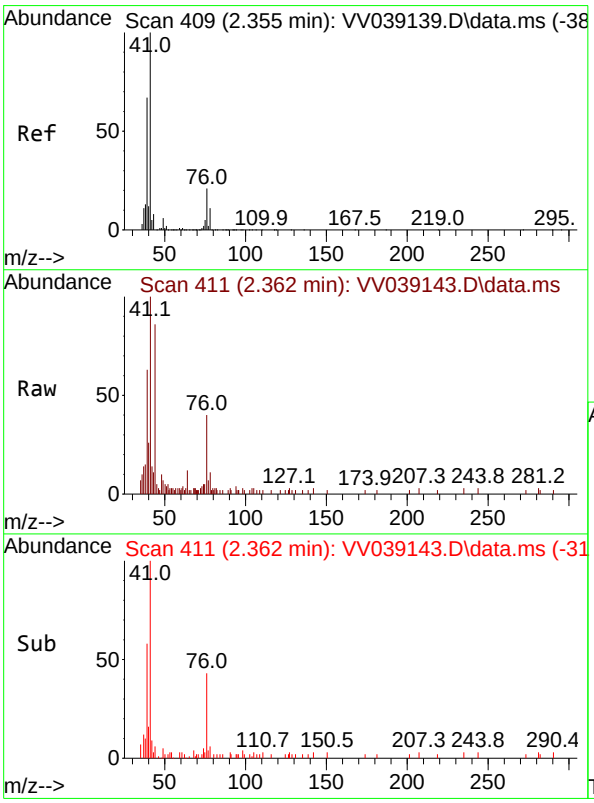
Ion	Ratio	Lower	Upper
96	100		
61	225.5	136.0	204.0#
98	77.5	51.0	76.6#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

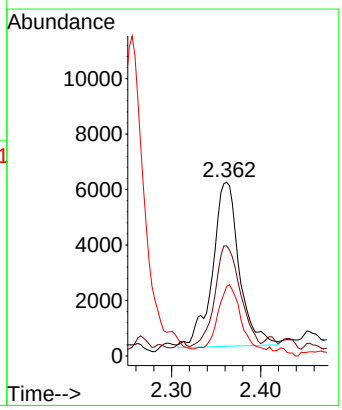
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

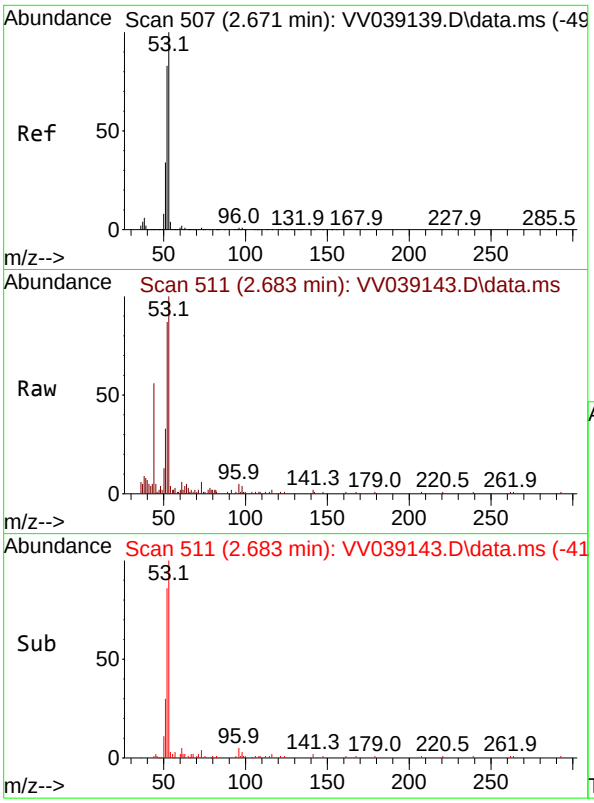


#14
Allyl chloride
Concen: 1.131 ug/l
RT: 2.362 min Scan# 411
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 12383

Ion	Ratio	Lower	Upper
41	100		
39	60.4	51.0	76.6
76	35.0	28.2	42.4

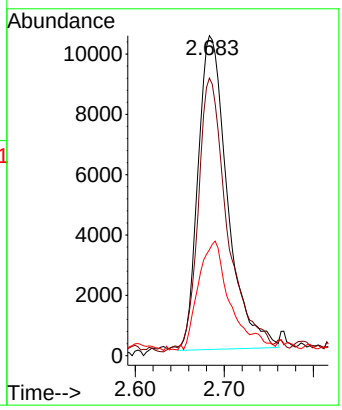




#15
Acrylonitrile
Concen: 5.989 ug/l
RT: 2.683 min Scan# 5
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 53 Resp: 2387

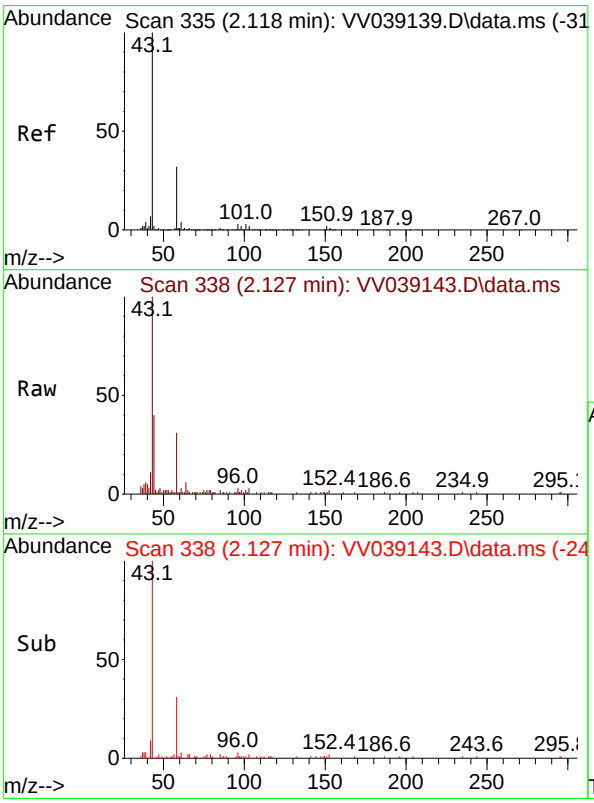
Ion	Ratio	Lower	Upper
53	100		
52	87.4	66.1	99.1
51	35.1	28.5	42.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

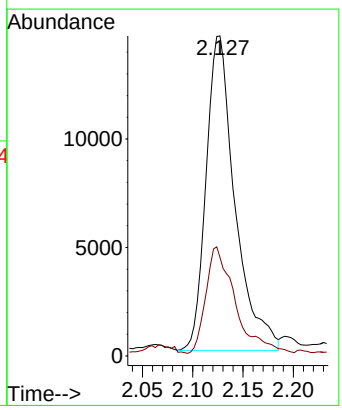
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

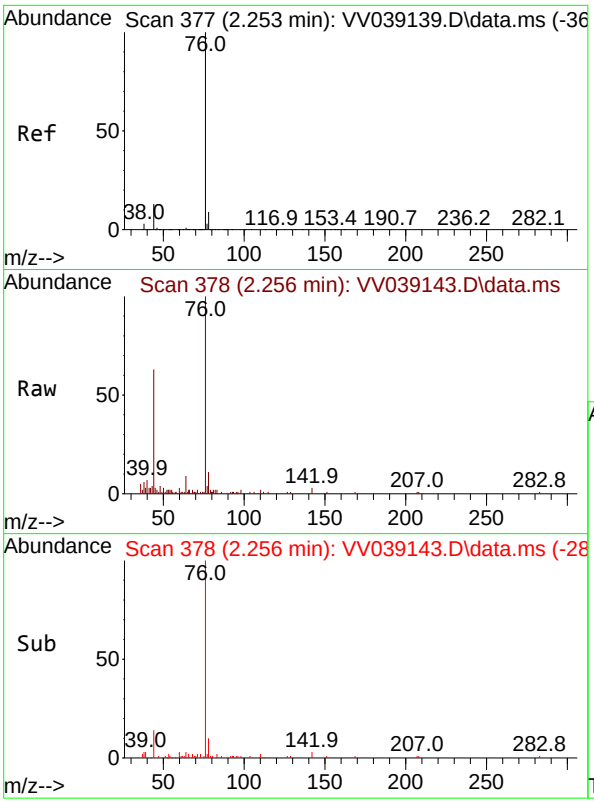


#16
Acetone
Concen: 3.224 ug/l
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 28927

Ion	Ratio	Lower	Upper
43	100		
58	30.2	25.8	38.6





#17
Carbon Disulfide
Concen: 1.158 ug/l
RT: 2.256 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

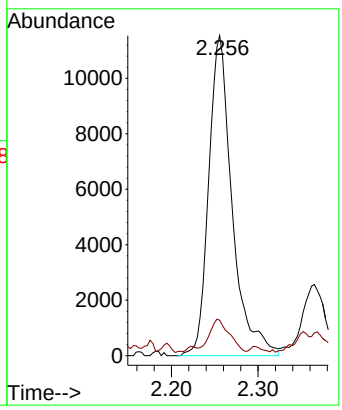
Tgt Ion: 76 Resp: 2170

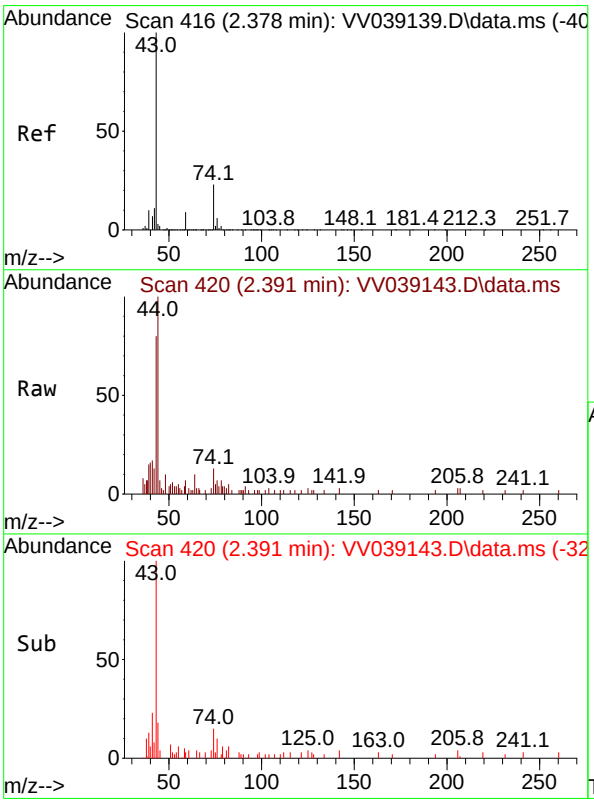
Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.4	11.0

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

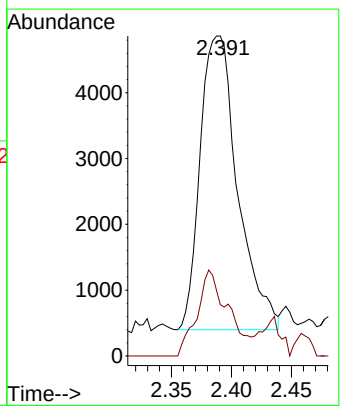


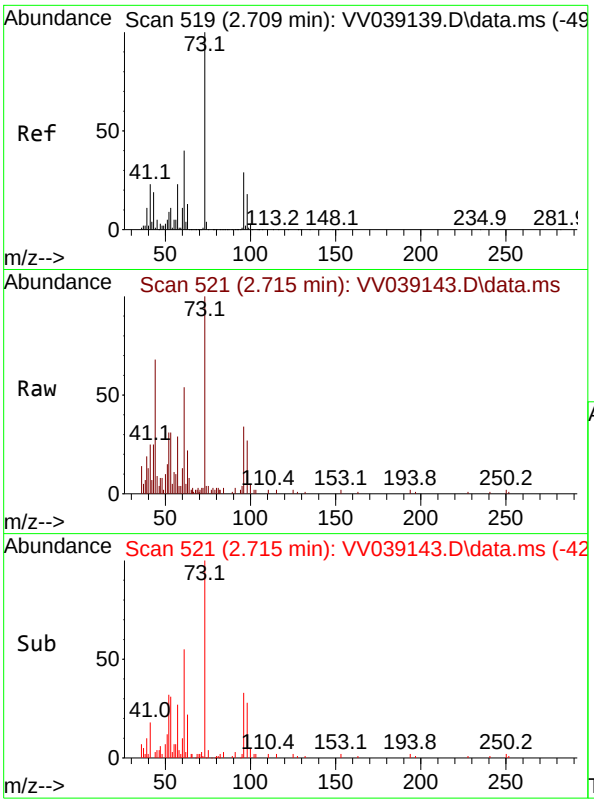


#18
Methyl Acetate
Concen: 1.118 ug/l
RT: 2.391 min Scan# 420
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 9742

Ion	Ratio	Lower	Upper
43	100		
74	24.3	18.6	27.8





#19
Methyl tert-butyl Ether
Concen: 1.078 ug/l
RT: 2.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

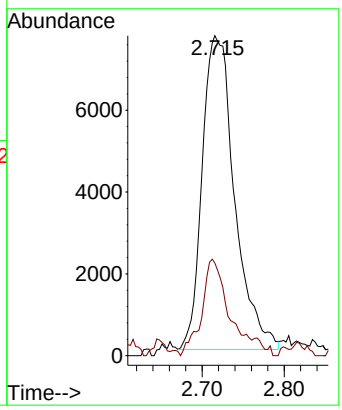
Tgt Ion: 73 Resp: 2106

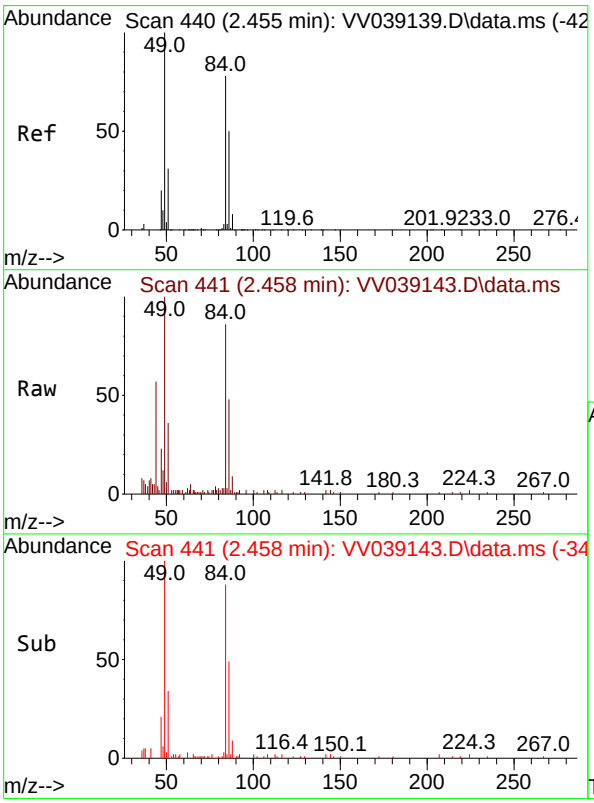
Ion	Ratio	Lower	Upper
73	100		
57	28.1	18.2	27.4

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

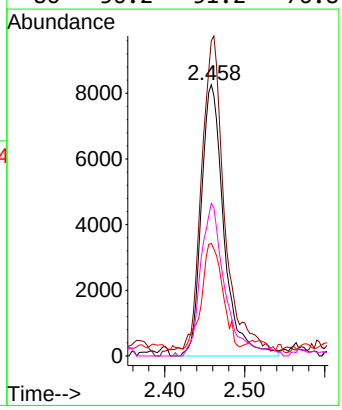


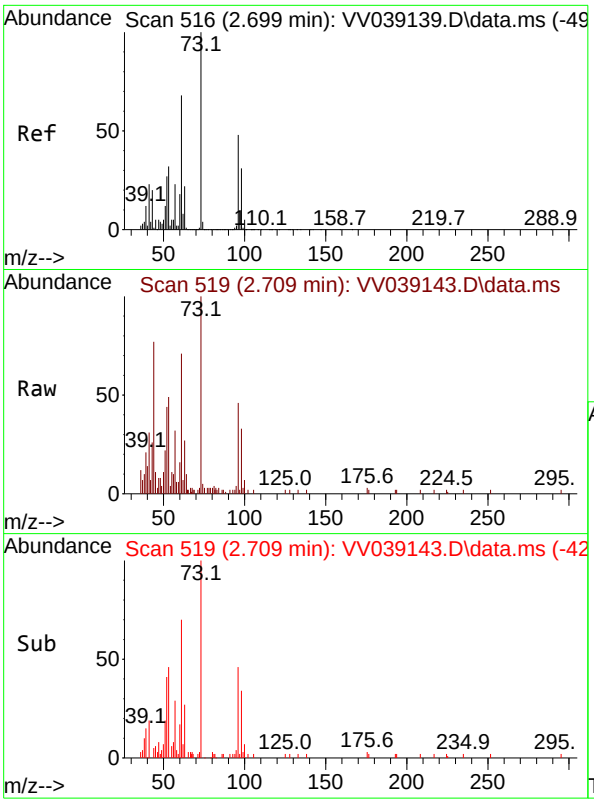


#20
Methylene Chloride
Concen: 0.632 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 84 Resp: 16152

Ion	Ratio	Lower	Upper
84	100		
49	114.5	102.8	154.2
51	38.2	31.9	47.9
86	56.2	51.2	76.8

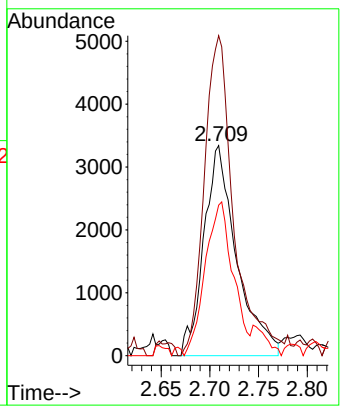




#21
trans-1,2-Dichloroethene
Concen: 1.195 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 96 Resp: 779

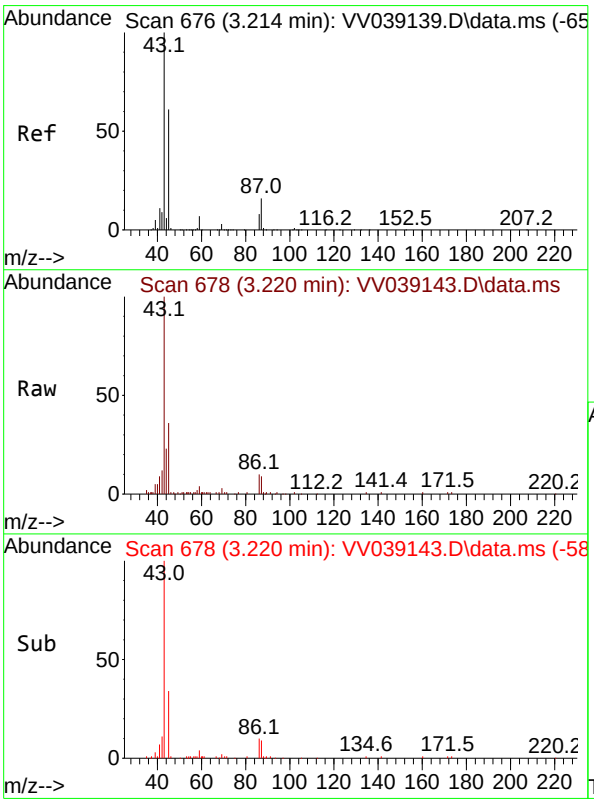
Ion	Ratio	Lower	Upper
96	100		
61	152.3	112.8	169.2
98	68.3	51.1	76.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

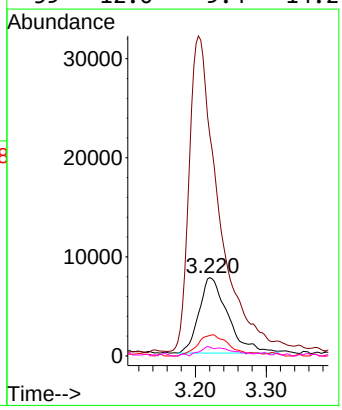
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

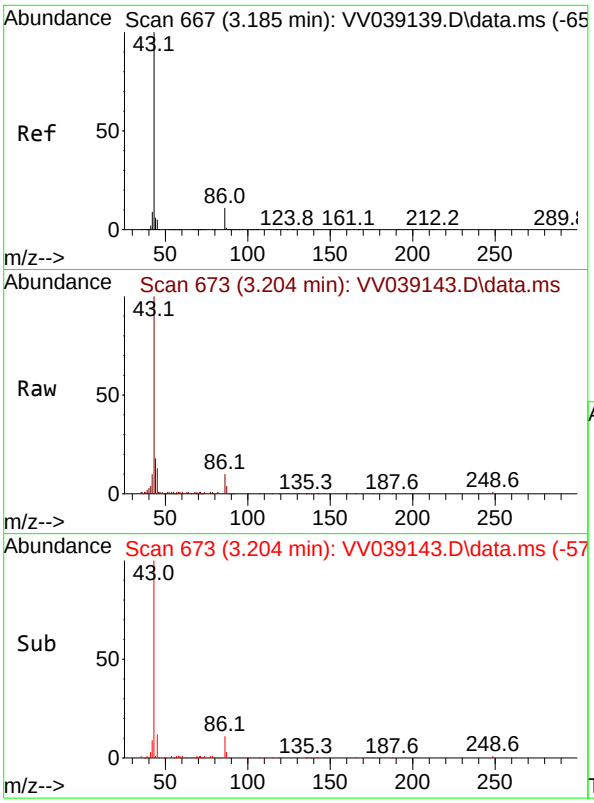


#22
Diisopropyl ether
Concen: 1.032 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 45 Resp: 21620

Ion	Ratio	Lower	Upper
45	100		
43	273.0	130.9	196.3#
87	27.1	21.1	31.7
59	12.0	9.4	14.2





#23
Vinyl Acetate
Concen: 4.977 ug/l
RT: 3.204 min Scan# 6
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

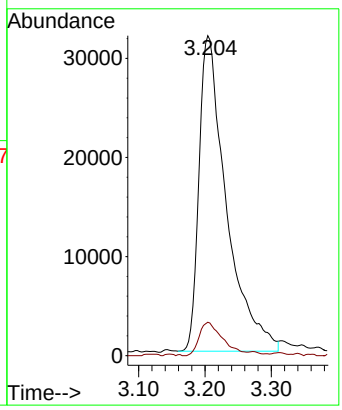
Tgt Ion: 43 Resp: 9119

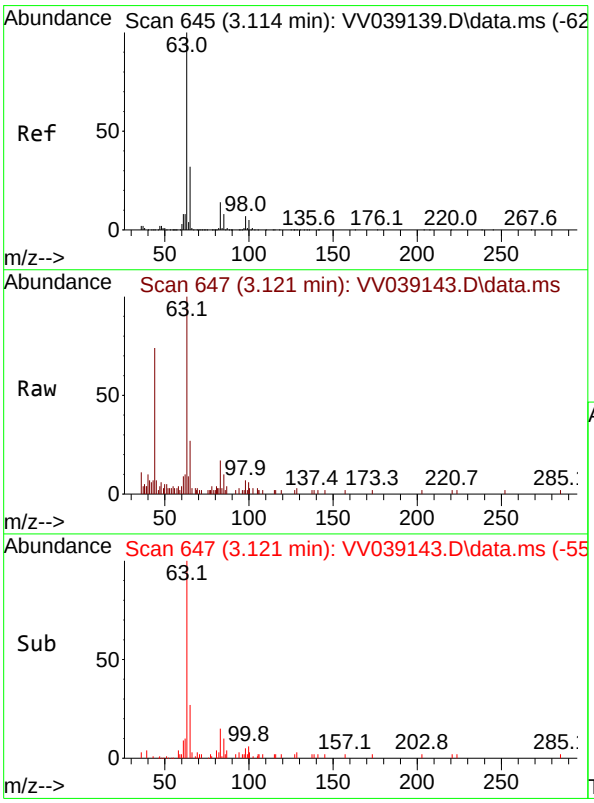
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.4	12.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

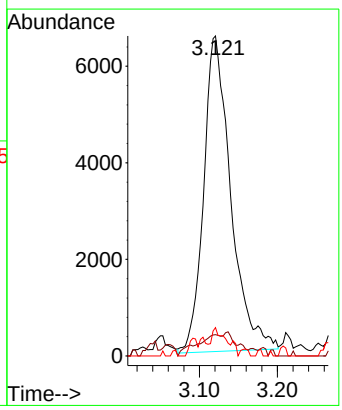


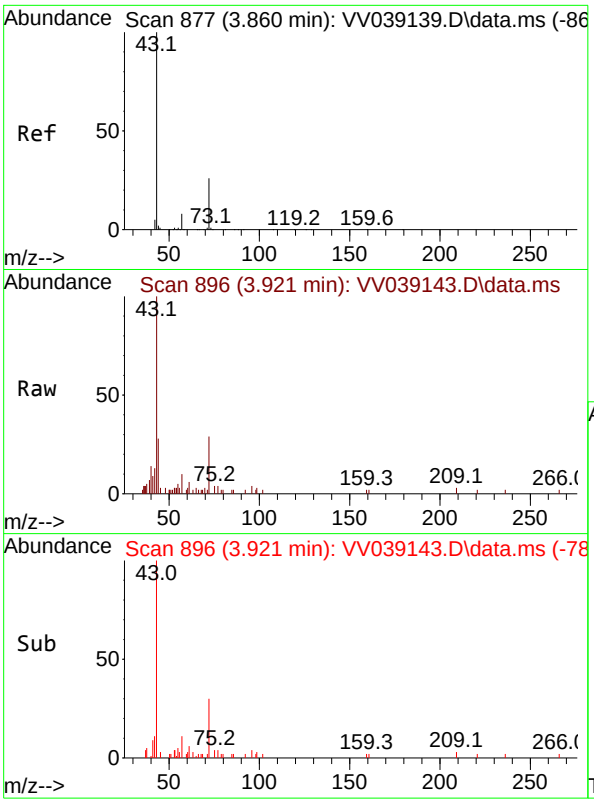


#24
1,1-Dichloroethane
Concen: 1.233 ug/l
RT: 3.121 min Scan# 647
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 15790

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	9.0	2.2	6.6#

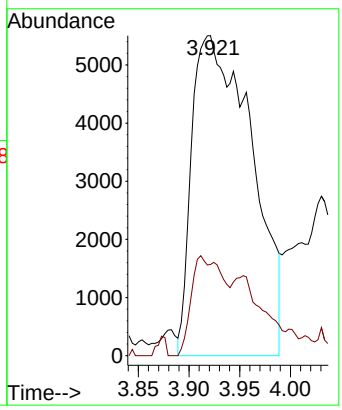




#25
2-Butanone
Concen: 4.862 ug/l m
RT: 3.921 min Scan# 8
Delta R.T. 0.061 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 2251

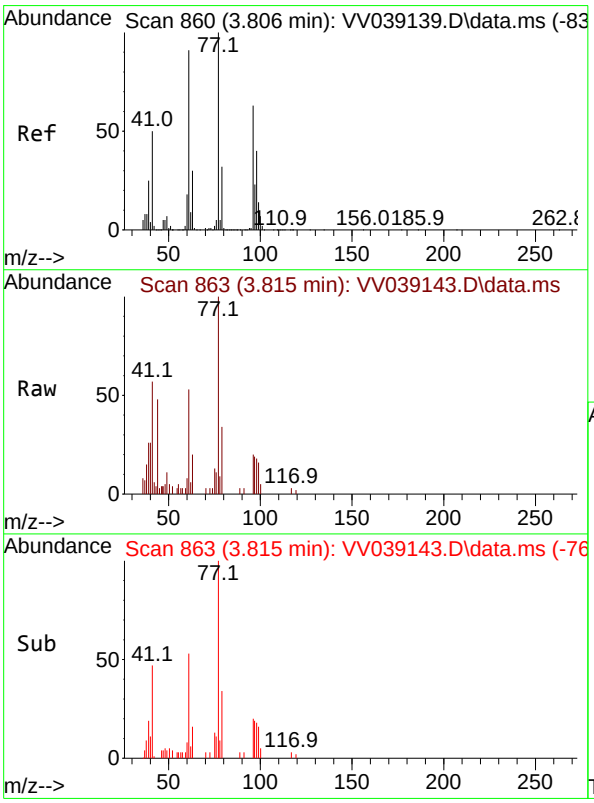
Ion	Ratio	Lower	Upper
43	100		
72	28.5	21.0	31.6



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

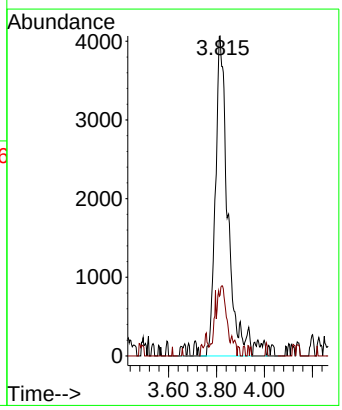
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

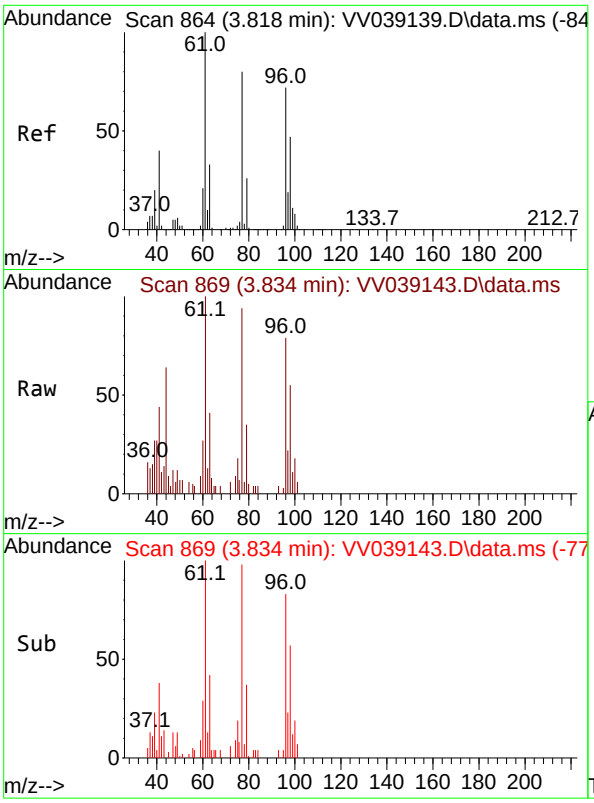


#26
2,2-Dichloropropane
Concen: 1.369 ug/l m
RT: 3.815 min Scan# 863
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 77 Resp: 15492

Ion	Ratio	Lower	Upper
77	100		
97	0.3	11.6	34.7#





#27
cis-1,2-Dichloroethene
Concen: 1.131 ug/l
RT: 3.834 min Scan# 8
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

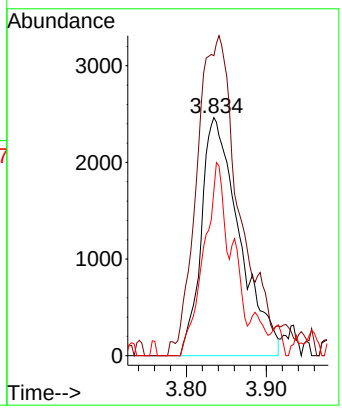
Tgt Ion: 96 Resp: 813

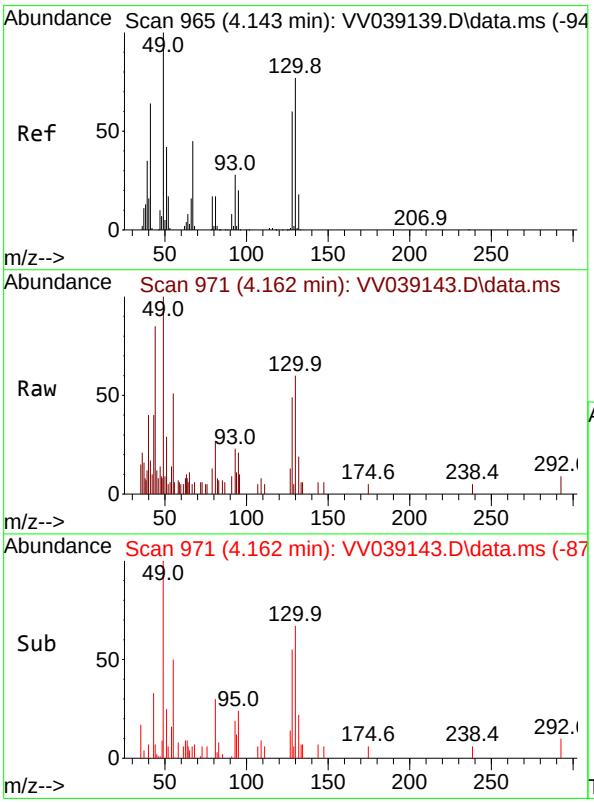
Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	286.4
98	46.3	0.0	126.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

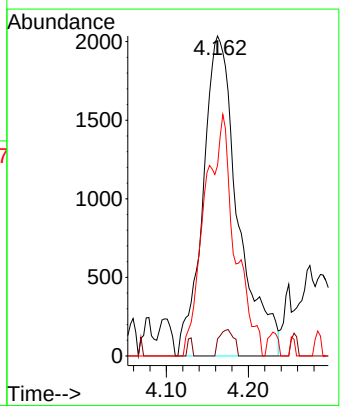


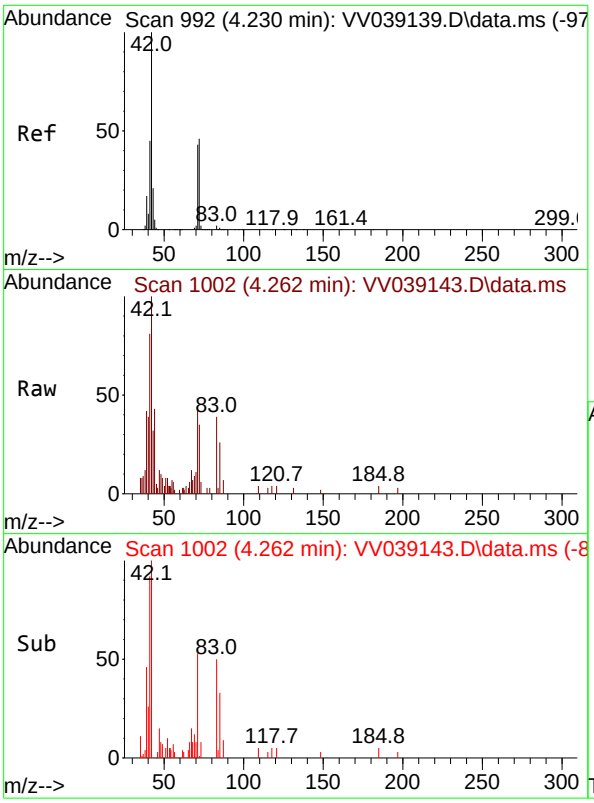


#28
Bromochloromethane
Concen: 1.068 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 49 Resp: 6039

Ion	Ratio	Lower	Upper
49	100		
129	3.5	0.0	4.2
130	34.4	60.2	90.2#

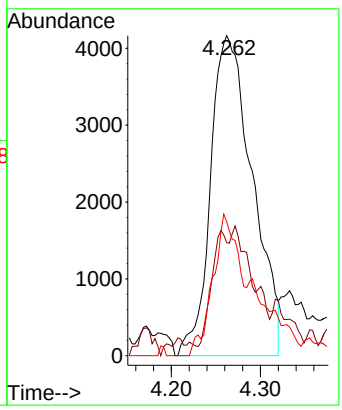




#29
Tetrahydrofuran
Concen: 4.619 ug/l
RT: 4.262 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 42 Resp: 1362

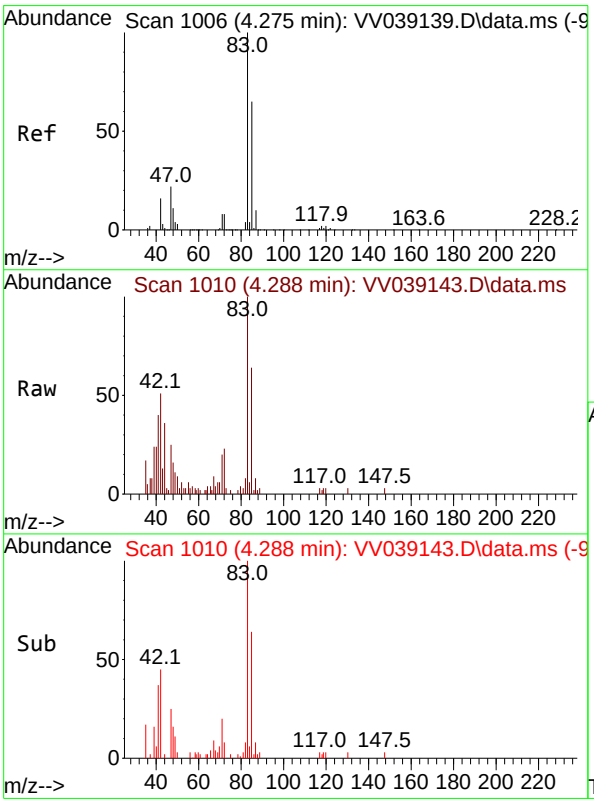
Ion	Ratio	Lower	Upper
42	100		
72	14.9	36.3	54.5#
71	28.2	34.3	51.5#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

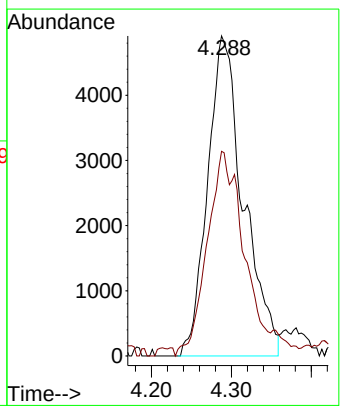
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

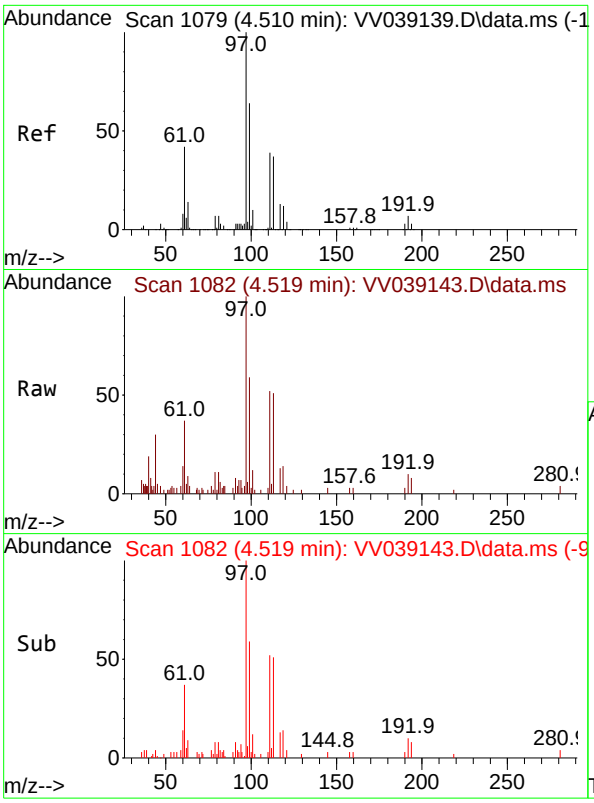


#30
Chloroform
Concen: 1.143 ug/l
RT: 4.288 min Scan# 1010
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 15288

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.1	78.1





#32
1,1,1-Trichloroethane
Concen: 1.116 ug/l
RT: 4.519 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

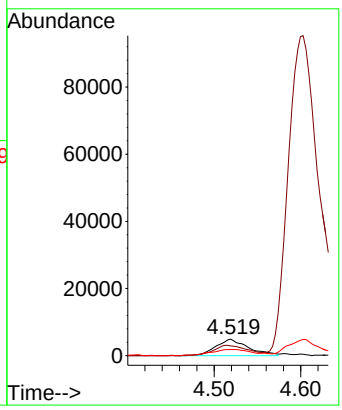
Tgt Ion: 97 Resp: 1292

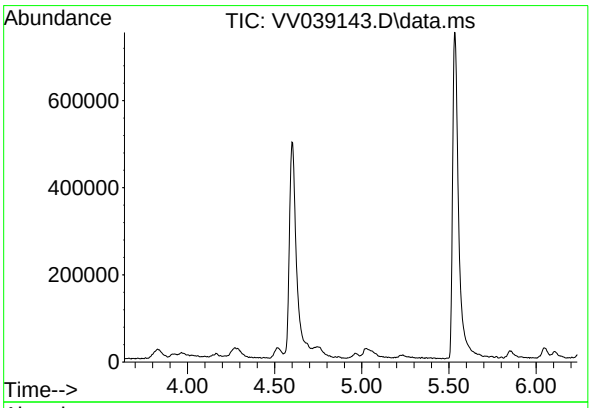
Ion	Ratio	Lower	Upper
97	100		
99	66.0	49.6	74.4
61	37.6	34.5	51.7

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



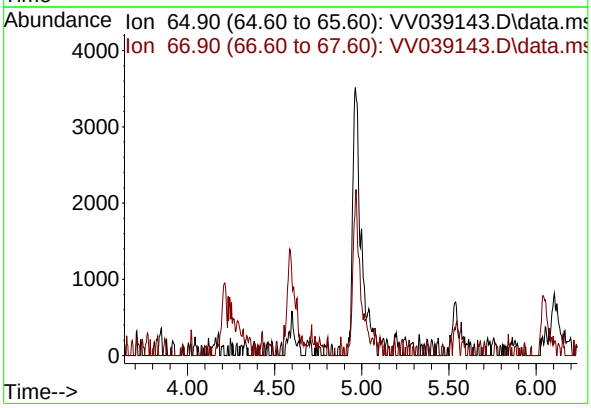


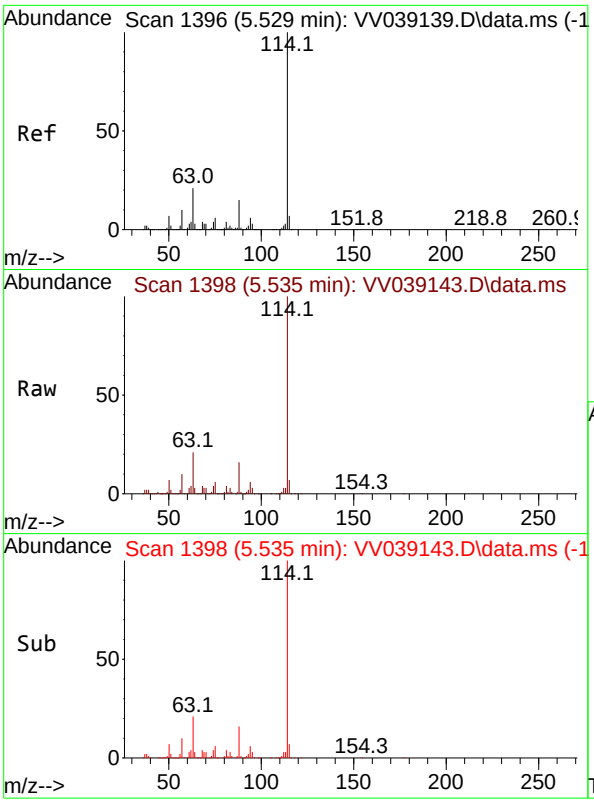
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 4.94 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	53.5





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

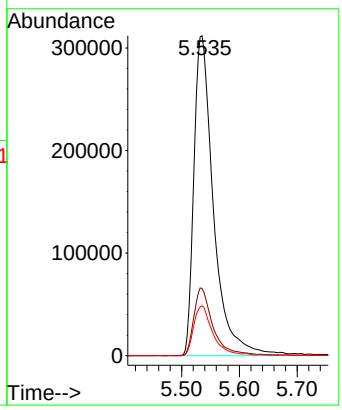
Tgt Ion:114 Resp: 73585

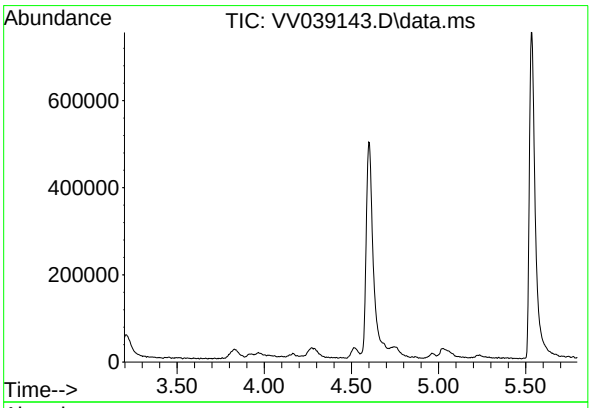
Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.6
88	15.6	0.0	30.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



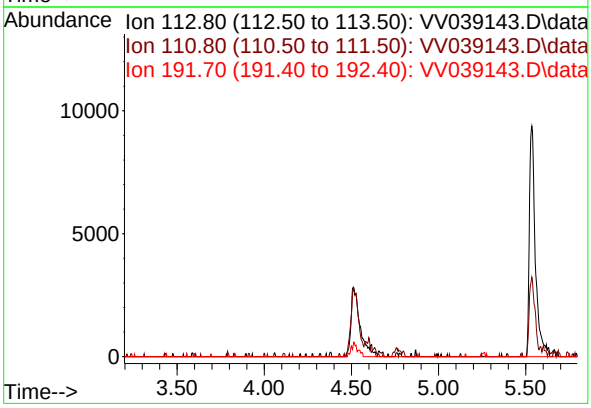


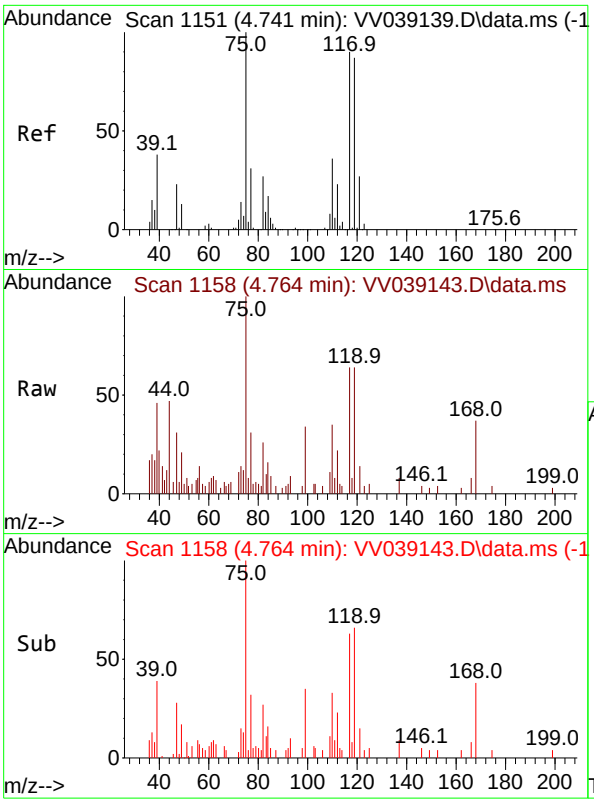
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 4.50 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.0
192	17.3

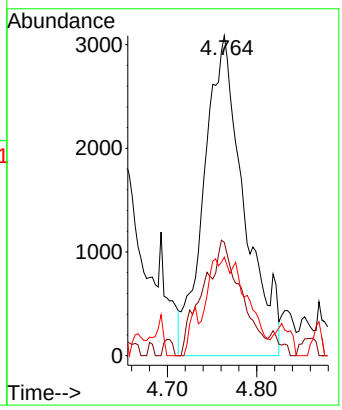




#36
1,1-Dichloropropene
Concen: 1.063 ug/l m
RT: 4.764 min Scan# 1
Delta R.T. 0.023 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 957

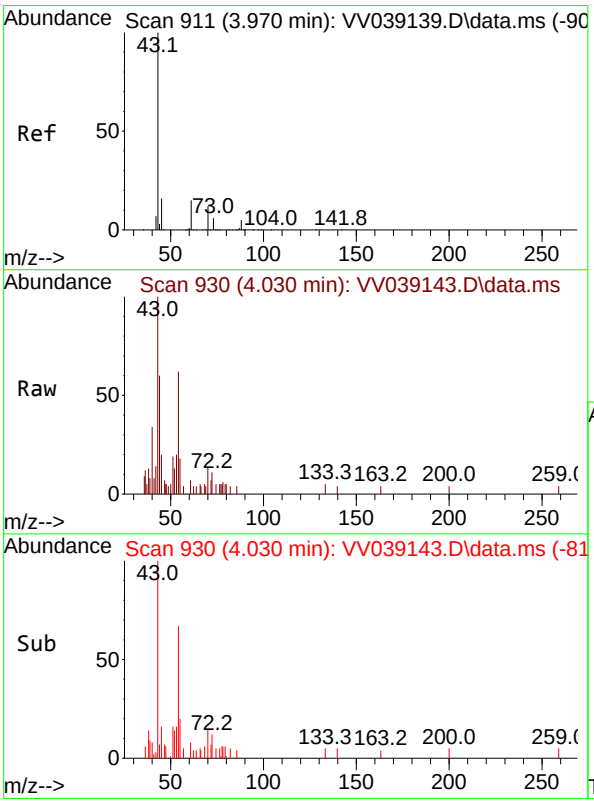
Ion	Ratio	Lower	Upper
75	100		
110	34.7	18.1	54.1
77	5.4	24.8	37.2#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

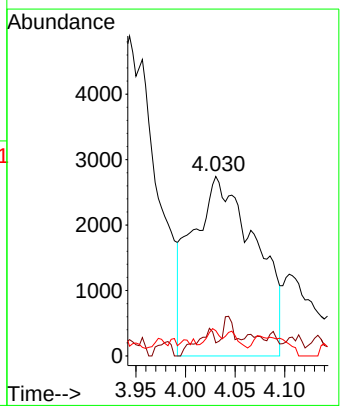
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

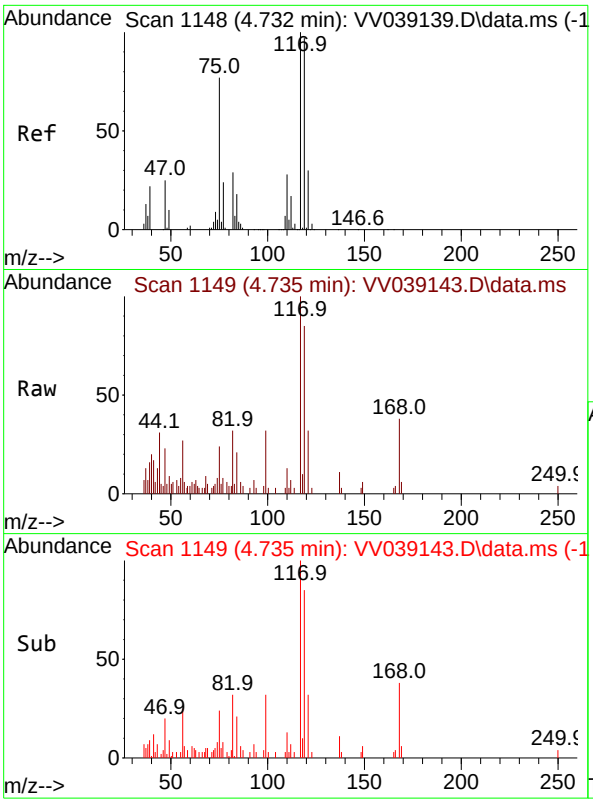


#37
Ethyl Acetate
Concen: 1.098 ug/l m
RT: 4.030 min Scan# 930
Delta R.T. 0.060 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 12136

Ion	Ratio	Lower	Upper
43	100		
61	4.2	10.3	15.5#
70	1.6	8.0	12.0#

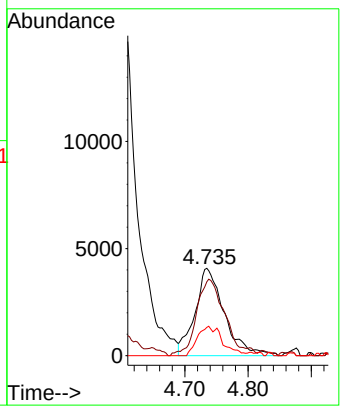




#38
Carbon Tetrachloride
Concen: 1.207 ug/l m
RT: 4.735 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:117 Resp: 1309

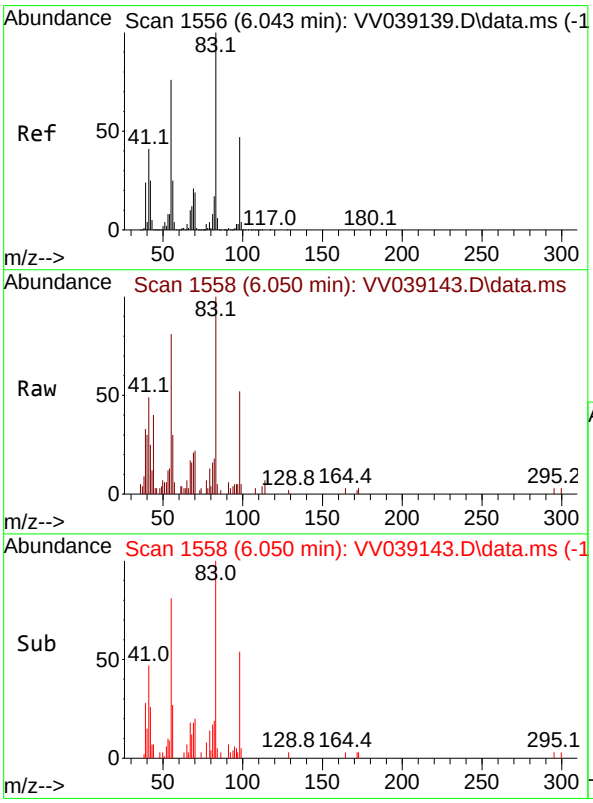
Ion	Ratio	Lower	Upper
117	100		
119	84.6	77.2	115.8
121	32.4	24.2	36.2



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

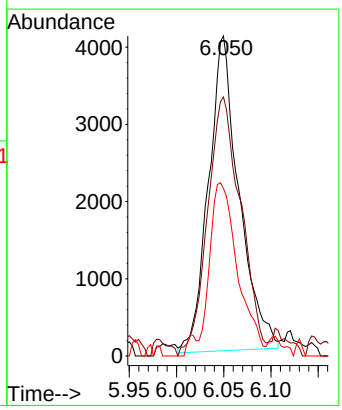
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

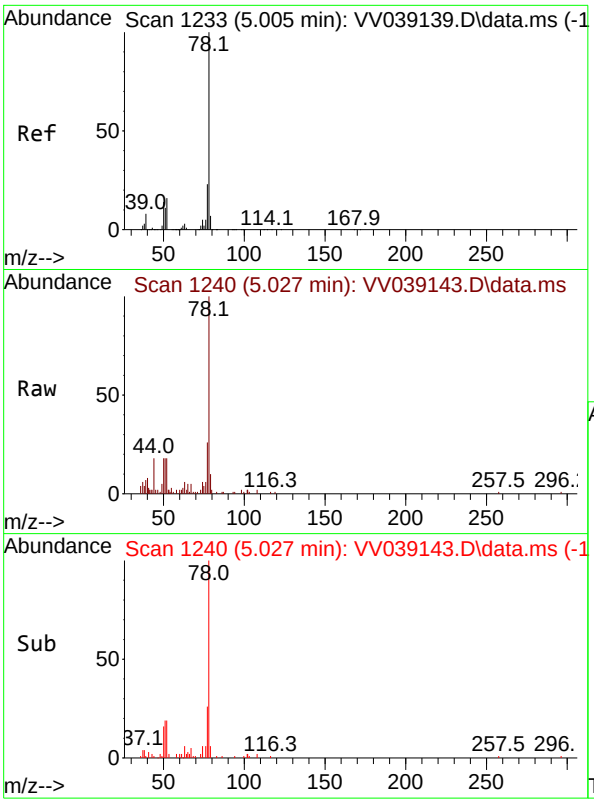


#39
Methylcyclohexane
Concen: 0.848 ug/l
RT: 6.050 min Scan# 1558
Delta R.T. 0.007 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 9159

Ion	Ratio	Lower	Upper
83	100		
55	83.0	60.5	90.7
98	53.7	37.8	56.6





#40
Benzene
Concen: 0.978 ug/l
RT: 5.027 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

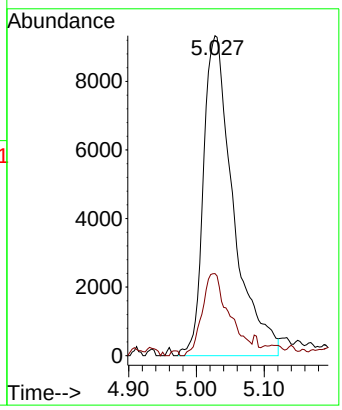
Tgt Ion: 78 Resp: 2848

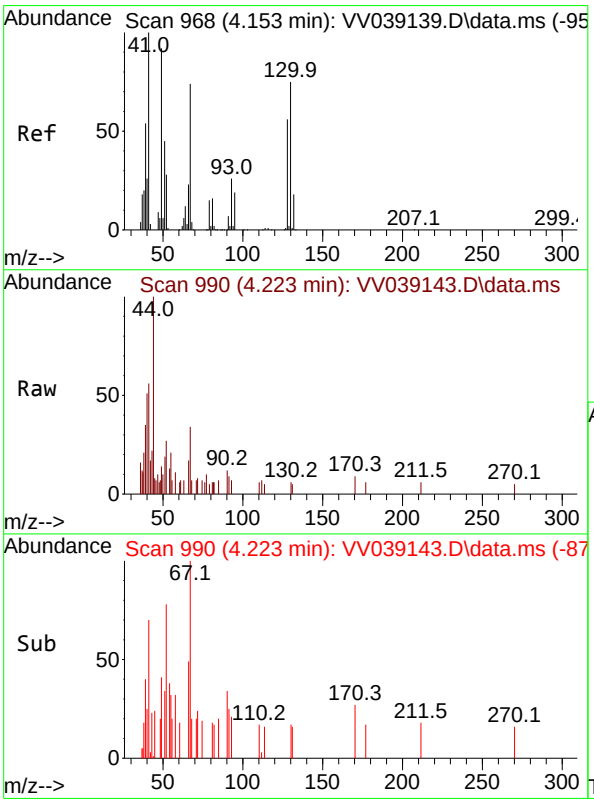
Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.7	28.1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

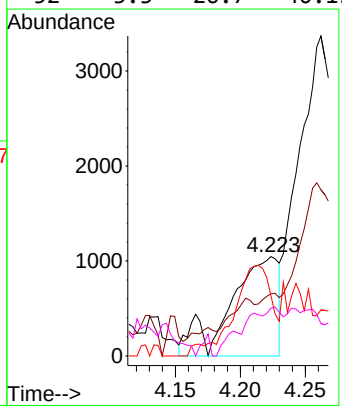


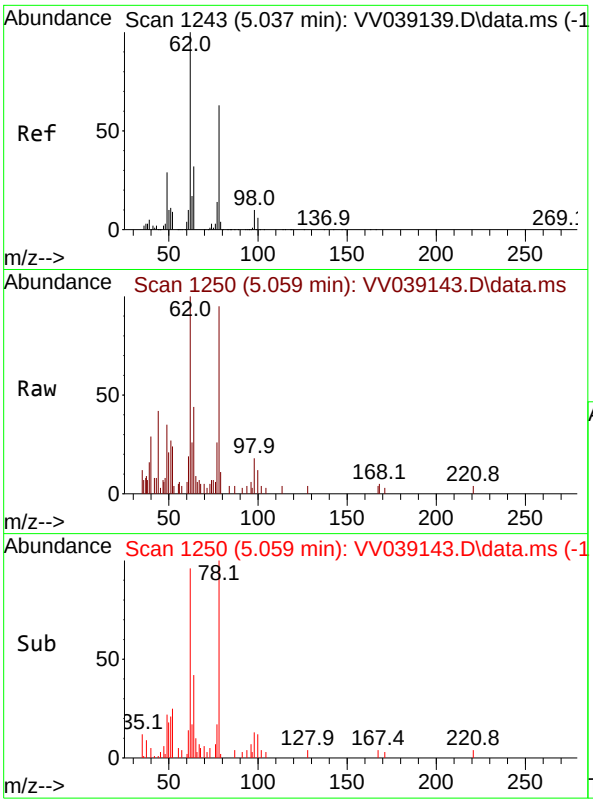


#41
Methacrylonitrile
Concen: 2.427 ug/l m
RT: 4.223 min Scan# 990
Delta R.T. 0.070 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 2717

Ion	Ratio	Lower	Upper
41	100		
39	5.4	42.2	63.2#
67	0.0	67.9	101.9#
52	3.3	26.7	40.1#





#42
1,2-Dichloroethane
Concen: 1.067 ug/l
RT: 5.059 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

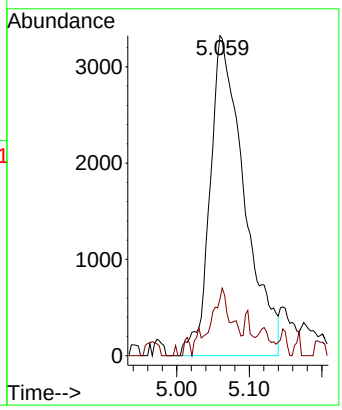
Tgt Ion: 62 Resp: 1089

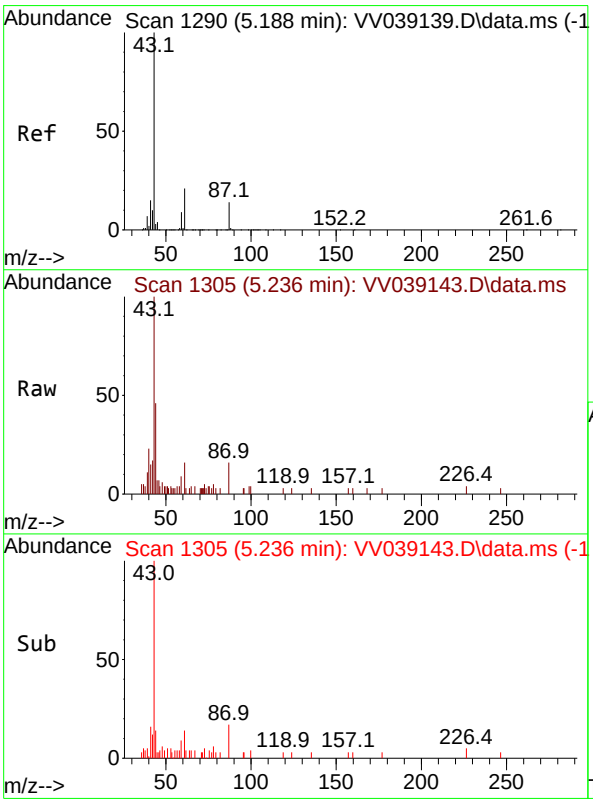
Ion	Ratio	Lower	Upper
62	100		
98	11.5	0.0	19.2

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

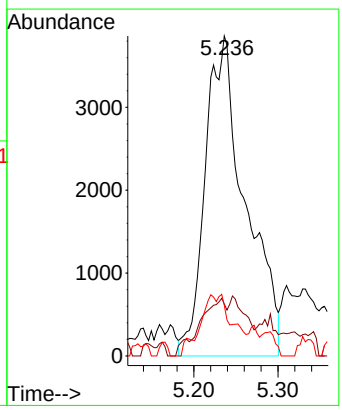


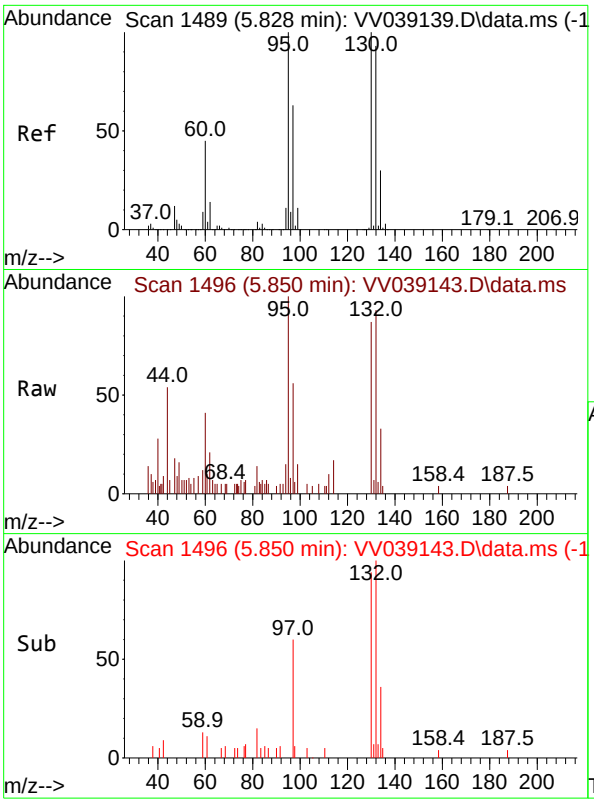


#43
Isopropyl Acetate
Concen: 0.840 ug/l m
RT: 5.236 min Scan# 1305
Delta R.T. 0.048 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 12786

Ion	Ratio	Lower	Upper
43	100		
61	7.1	15.9	23.9#
87	4.4	11.0	16.6#





#44
Trichloroethene
Concen: 0.953 ug/l
RT: 5.850 min Scan# 14
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

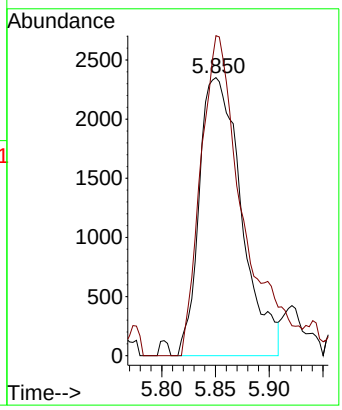
Tgt Ion:130 Resp: 640

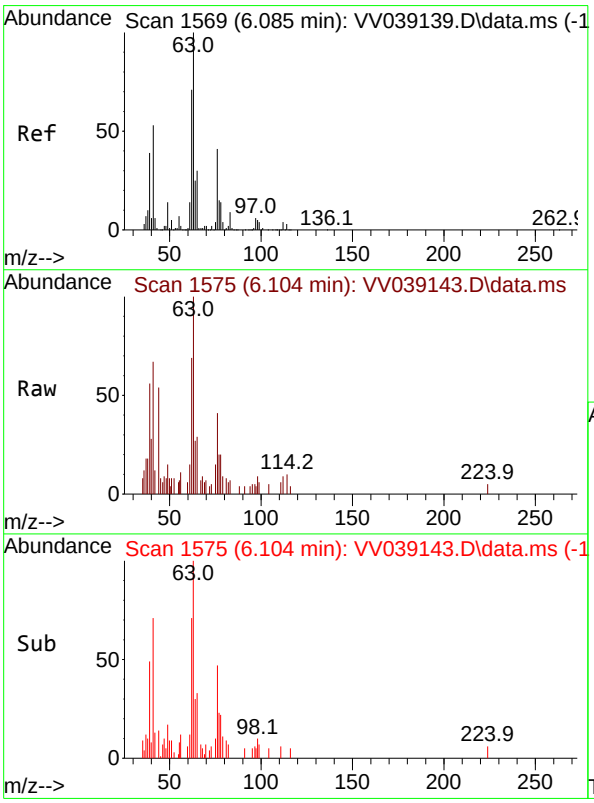
Ion	Ratio	Lower	Upper
130	100		
95	115.1	0.0	199.2

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

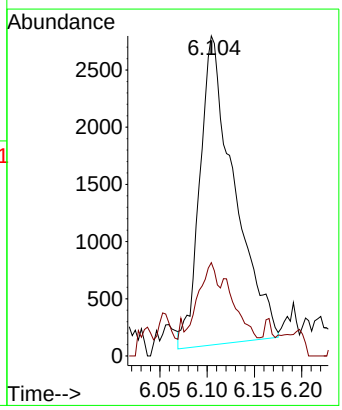


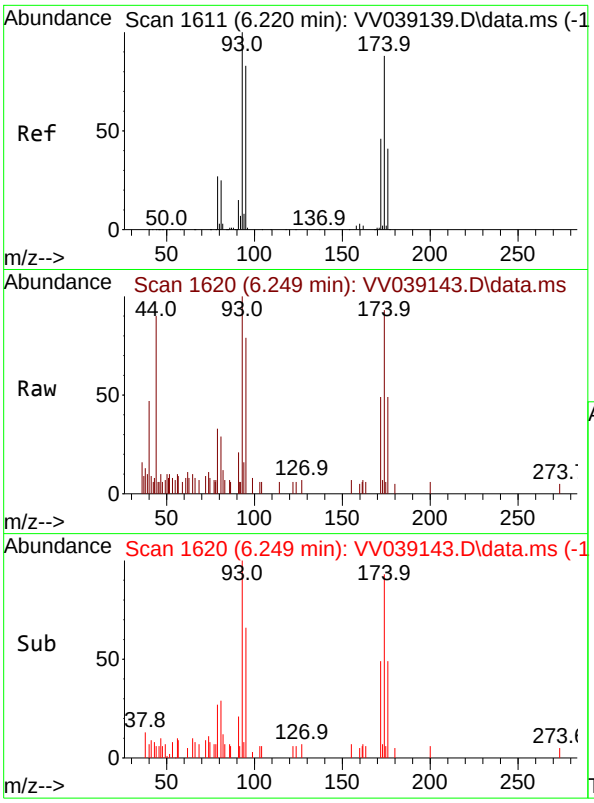


#45
1,2-Dichloropropane
Concen: 0.945 ug/l
RT: 6.104 min Scan# 1575
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 6838

Ion	Ratio	Lower	Upper
63	100		
65	25.8	23.7	35.5

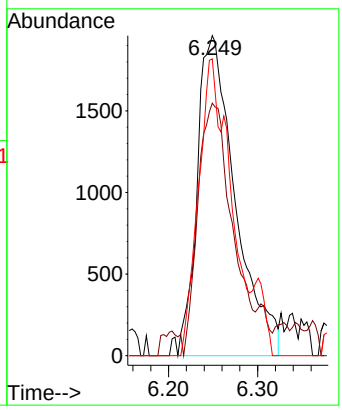




#46
Dibromomethane
Concen: 1.053 ug/l
RT: 6.249 min Scan# 1
Delta R.T. 0.029 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 93 Resp: 583

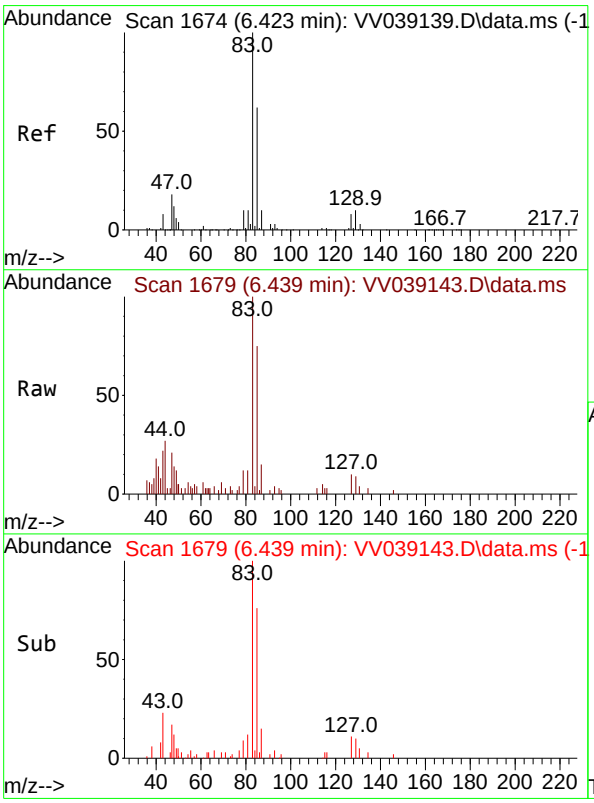
Ion	Ratio	Lower	Upper
93	100		
95	70.8	65.5	98.3
174	77.3	69.0	103.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

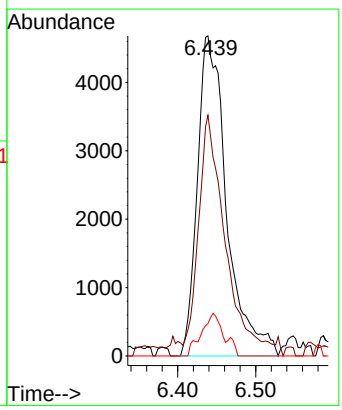
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

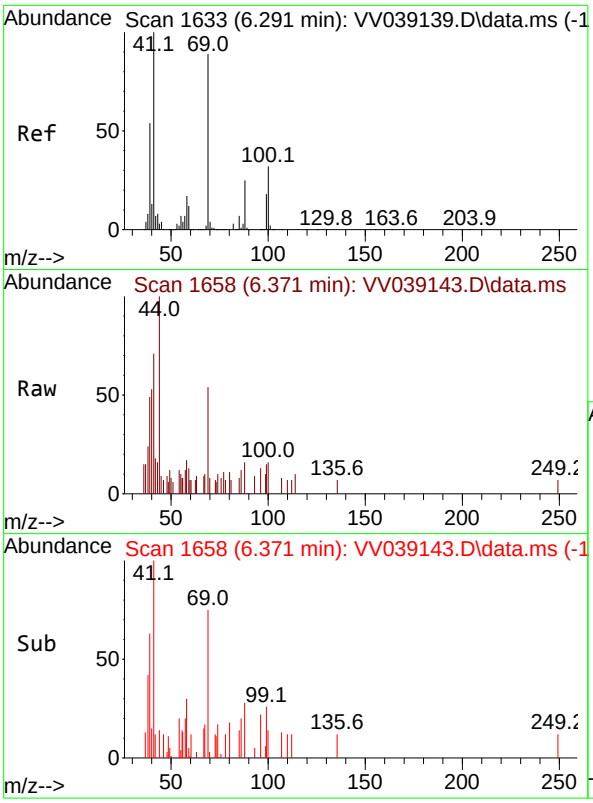


#47
Bromodichloromethane
Concen: 1.066 ug/l
RT: 6.439 min Scan# 1679
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12206

Ion	Ratio	Lower	Upper
83	100		
85	70.7	49.7	74.5
127	10.2	6.6	9.8#

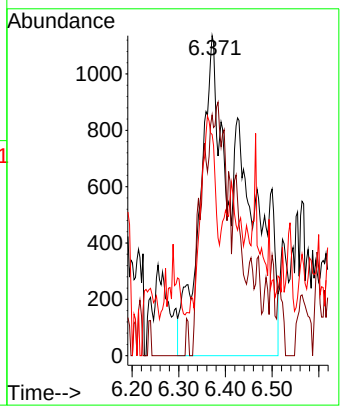




#48
Methyl methacrylate
Concen: 1.038 ug/l m
RT: 6.371 min Scan# 1
Delta R.T. 0.080 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 723

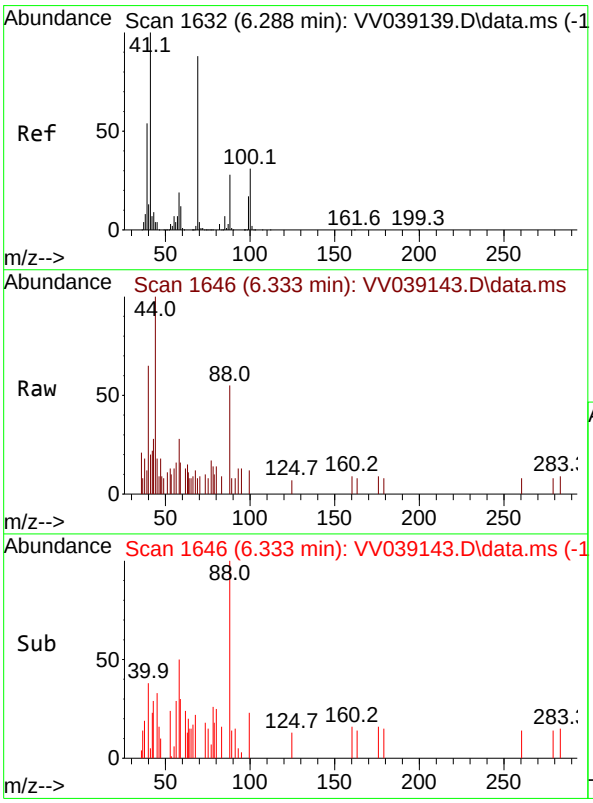
Ion	Ratio	Lower	Upper
41	100		
69	0.0	72.4	108.6#
39	0.0	42.5	63.7#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

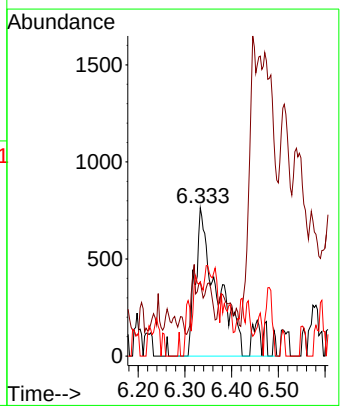
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

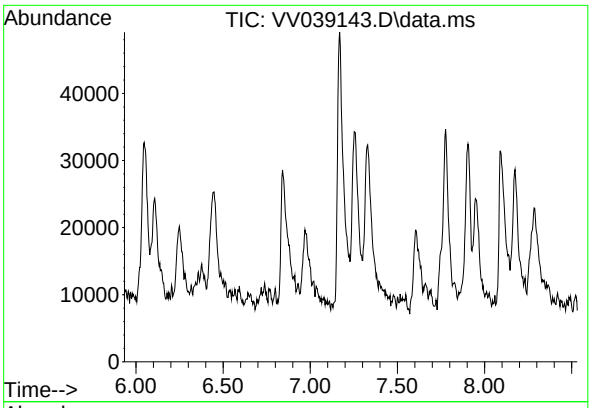


#49
1,4-Dioxane
Concen: 24.855 ug/l m
RT: 6.333 min Scan# 1646
Delta R.T. 0.045 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 88 Resp: 2721

Ion	Ratio	Lower	Upper
88	100		
43	9.6	25.1	37.7#
58	12.8	53.6	80.4#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.23 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

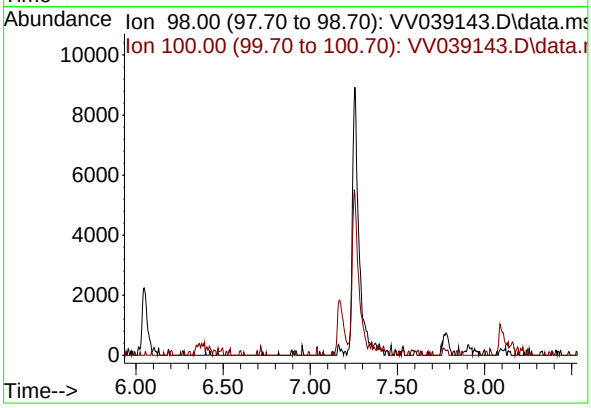
Tgt Ion: 98

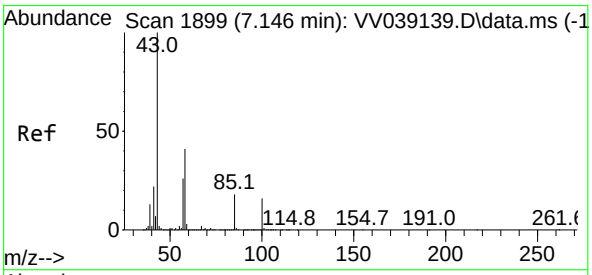
Sig	Exp Ratio
98	100
100	65.2

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

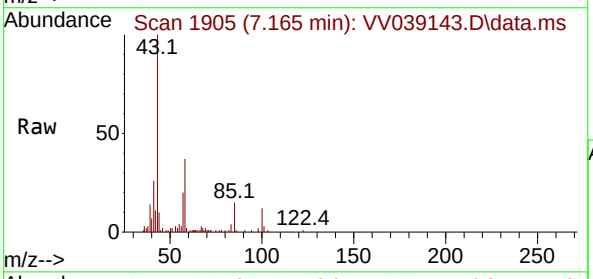


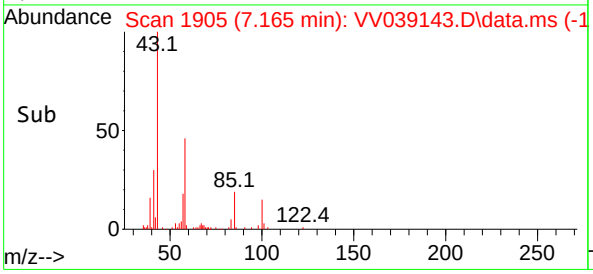


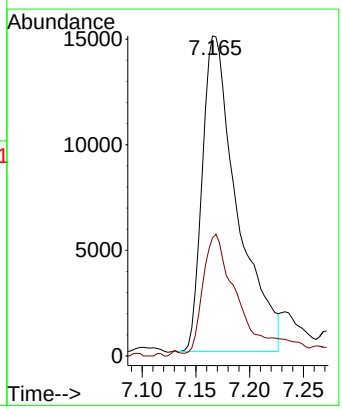
#51
4-Methyl-2-Pentanone
Concen: 3.472 ug/l
RT: 7.165 min Scan# 1905
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

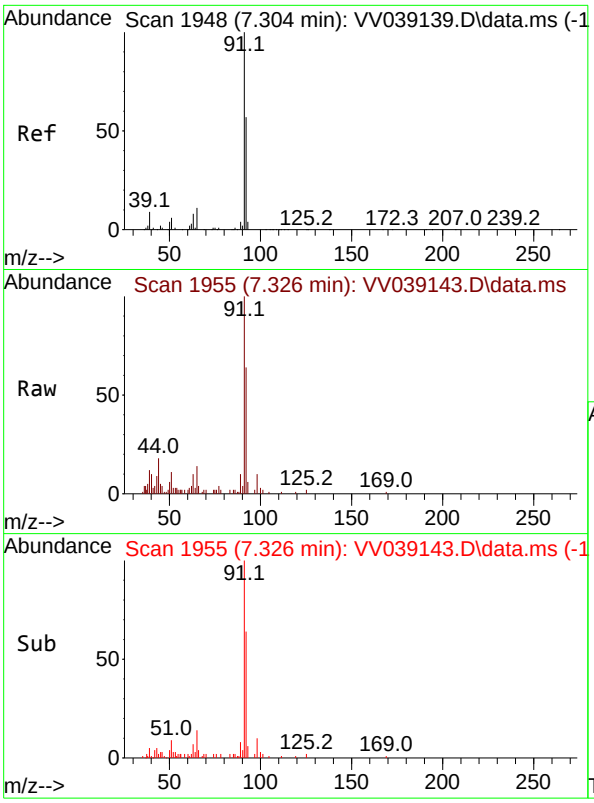
Tgt Ion: 43 Resp: 33797

Ion	Ratio	Lower	Upper
43	100		
58	38.1	32.3	48.5





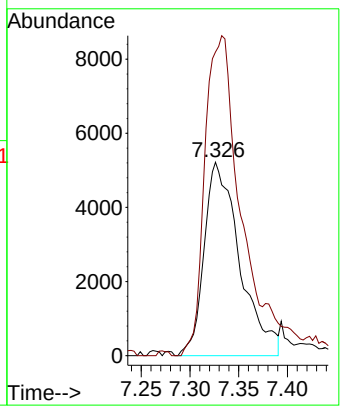




#52
Toluene
Concen: 0.786 ug/l
RT: 7.326 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 92 Resp: 1326

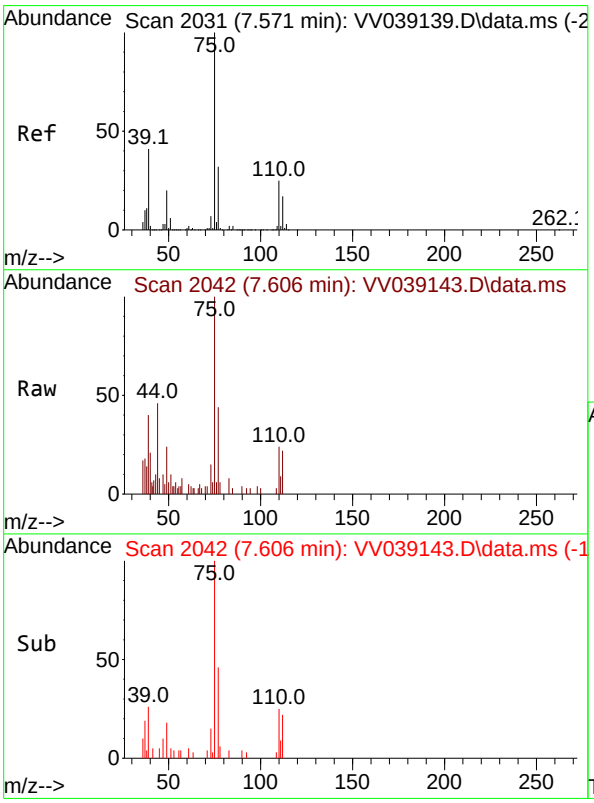
Ion	Ratio	Lower	Upper
92	100		
91	156.2	139.2	208.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

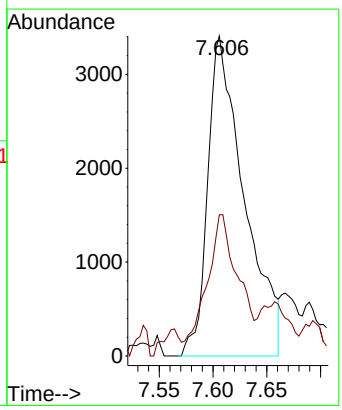
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

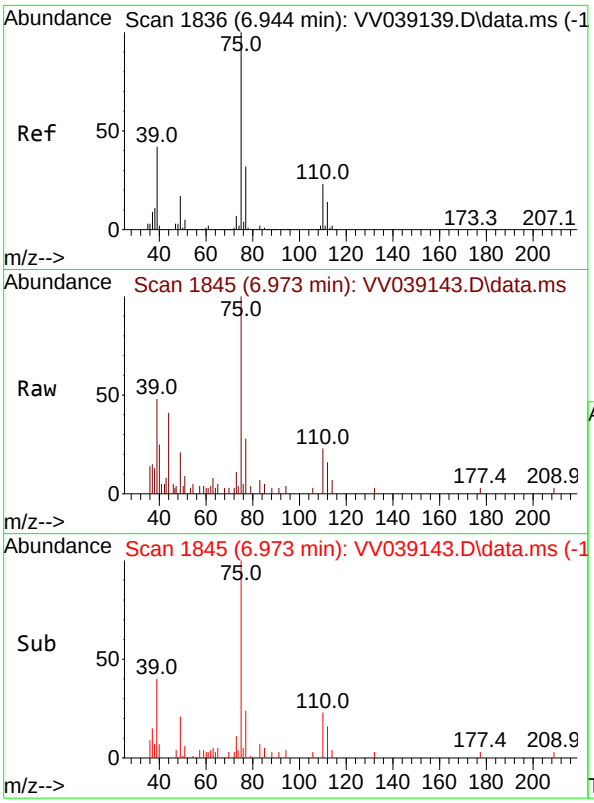


#53
t-1,3-Dichloropropene
Concen: 0.807 ug/l
RT: 7.606 min Scan# 2042
Delta R.T. 0.035 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 8060

Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.9	38.9

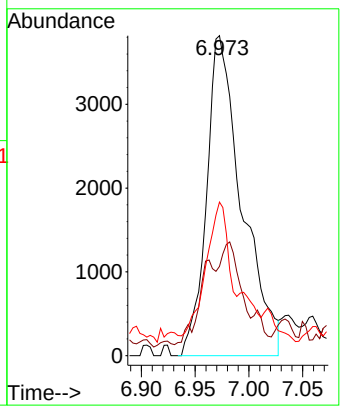




#54
cis-1,3-Dichloropropene
Concen: 0.794 ug/l
RT: 6.973 min Scan# 1
Delta R.T. 0.029 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 875

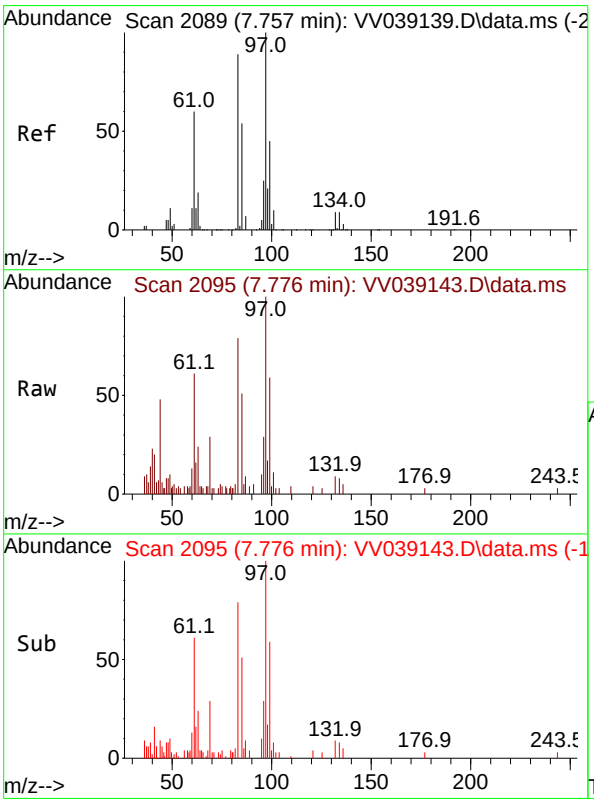
Ion	Ratio	Lower	Upper
75	100		
77	23.8	25.5	38.3#
39	41.7	33.8	50.6



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

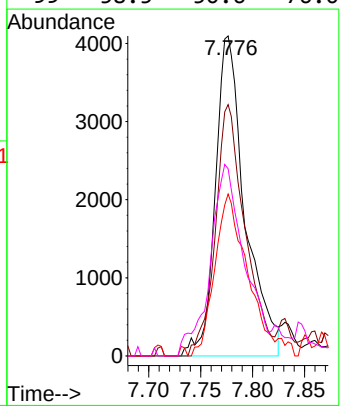
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

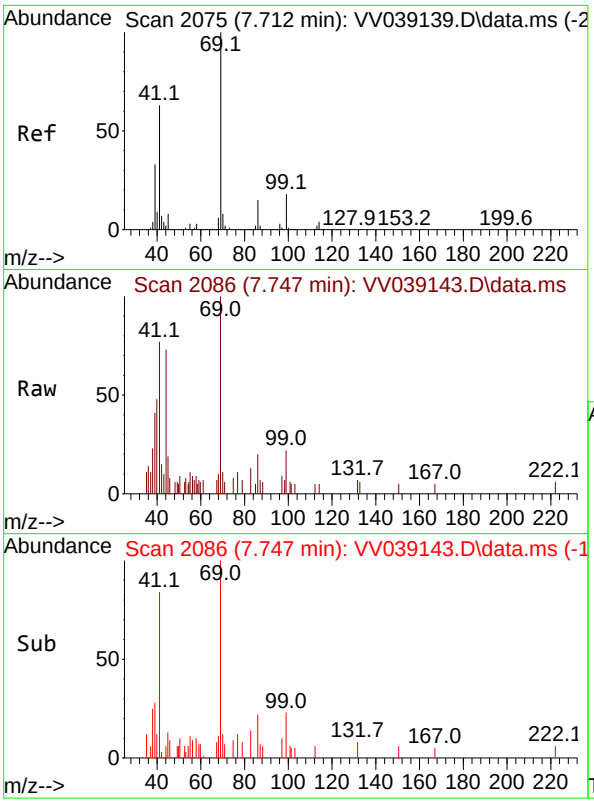


#55
1,1,2-Trichloroethane
Concen: 1.075 ug/l
RT: 7.776 min Scan# 2095
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 97 Resp: 8140

Ion	Ratio	Lower	Upper
97	100		
83	78.6	71.1	106.7
85	50.6	44.6	67.0
99	58.5	50.6	76.0





#56
Ethyl methacrylate
Concen: 0.829 ug/l m
RT: 7.747 min Scan# 2
Delta R.T. 0.035 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

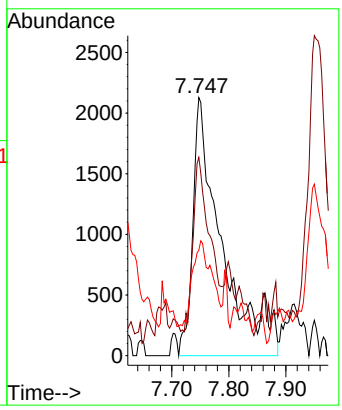
Tgt Ion: 69 Resp: 745

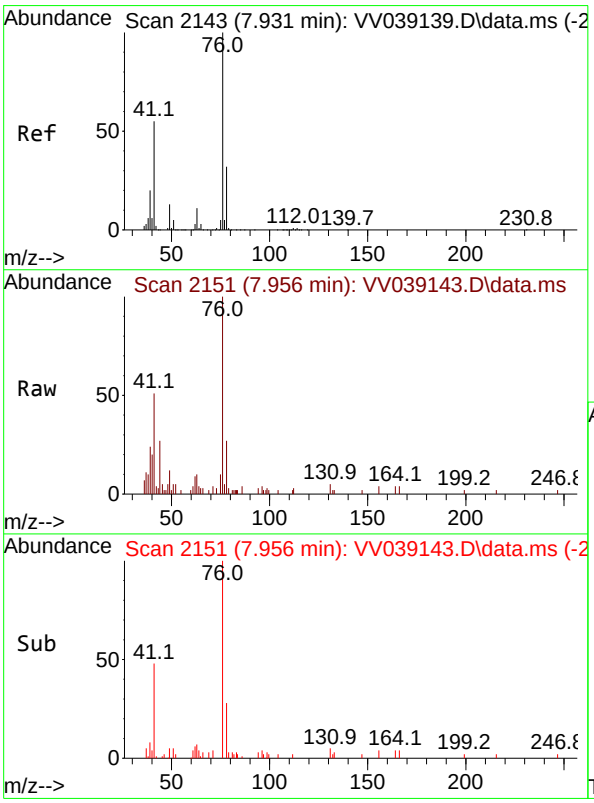
Ion	Ratio	Lower	Upper
69	100		
41	40.0	50.7	76.1#
39	21.4	26.0	39.0#

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

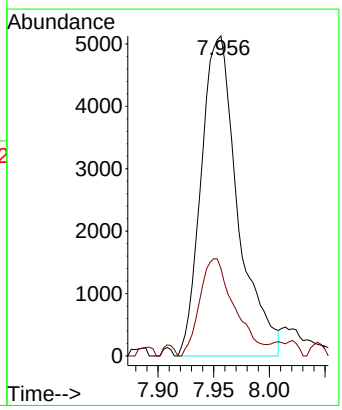


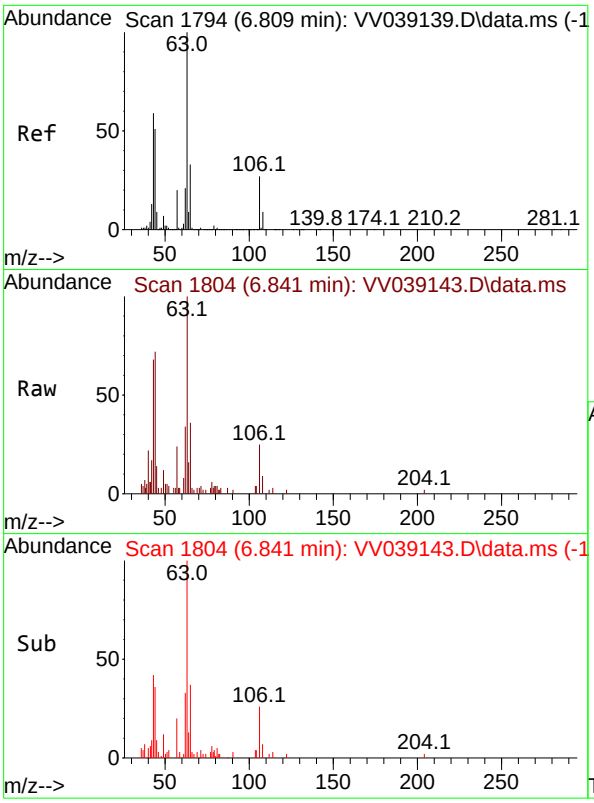


#57
1,3-Dichloropropane
Concen: 0.982 ug/l
RT: 7.956 min Scan# 2151
Delta R.T. 0.025 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 76 Resp: 11732

Ion	Ratio	Lower	Upper
76	100		
78	29.1	26.1	39.1





#58
2-Chloroethyl Vinyl ether
Concen: 11.289 ug/l
RT: 6.841 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

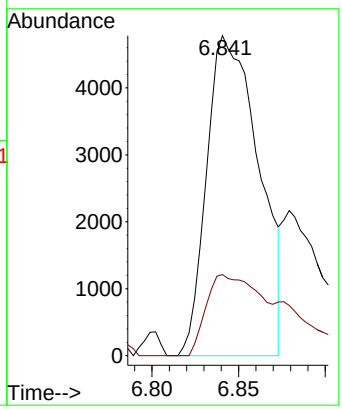
Tgt Ion: 63 Resp: 1001

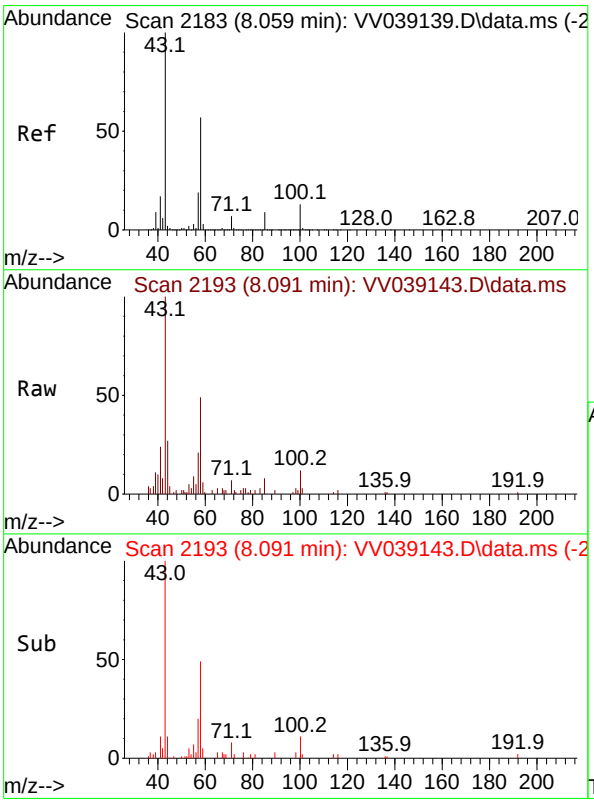
Ion	Ratio	Lower	Upper
63	100		
106	26.4	22.1	33.1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

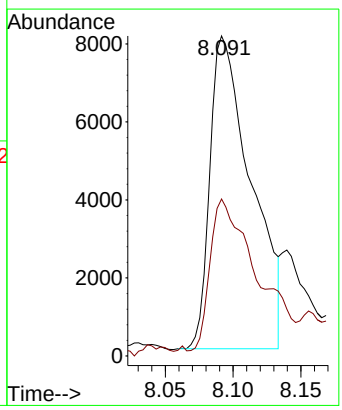


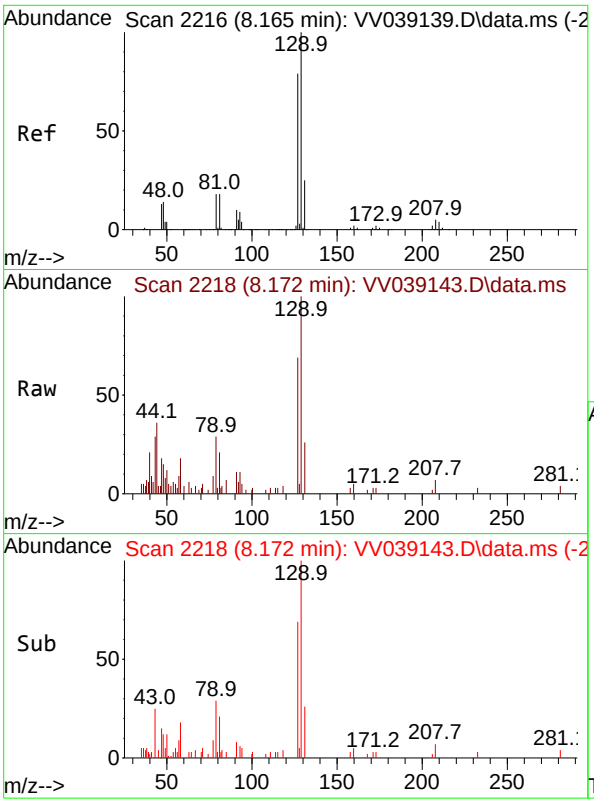


#59
2-Hexanone
Concen: 4.307 ug/l
RT: 8.091 min Scan# 2193
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 17015

Ion	Ratio	Lower	Upper
43	100		
58	55.1	28.3	85.0





#60
Dibromochloromethane
Concen: 1.057 ug/l
RT: 8.172 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

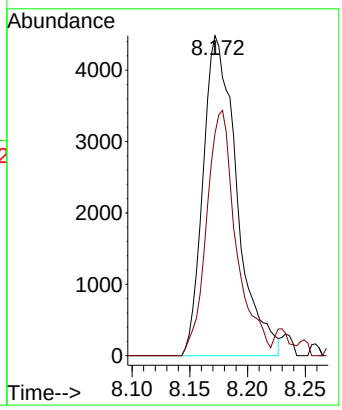
Tgt Ion:129 Resp: 912

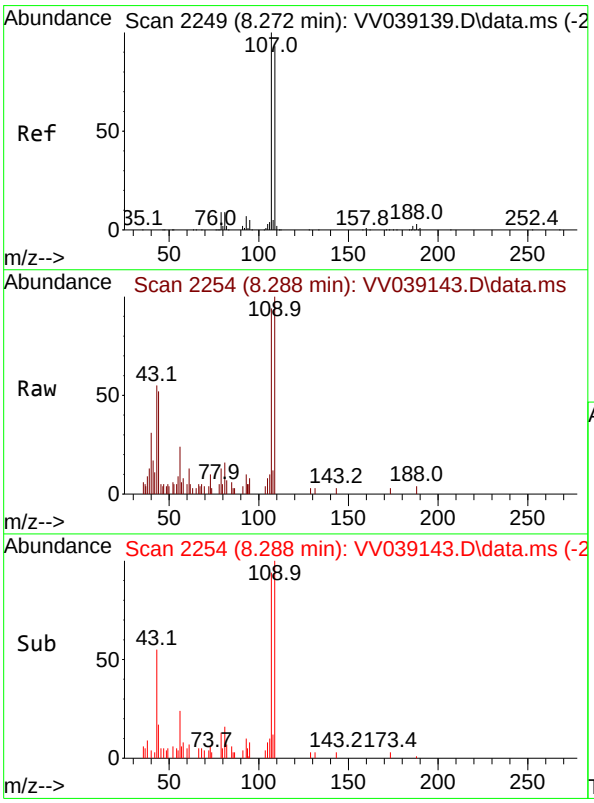
Ion	Ratio	Lower	Upper
129	100		
127	67.4	39.3	117.9

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

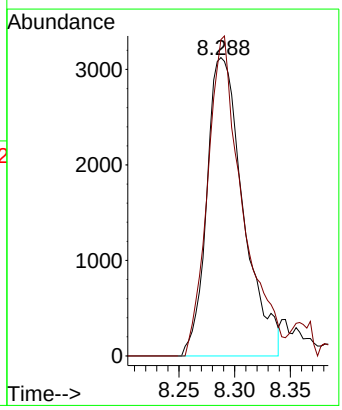


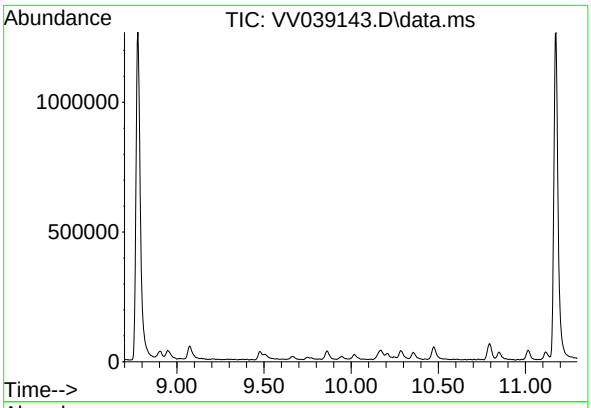


#61
1,2-Dibromoethane
Concen: 0.921 ug/l
RT: 8.288 min Scan# 2254
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:107 Resp: 7129

Ion	Ratio	Lower	Upper
107	100		
109	102.8	74.6	112.0





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 10.00 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

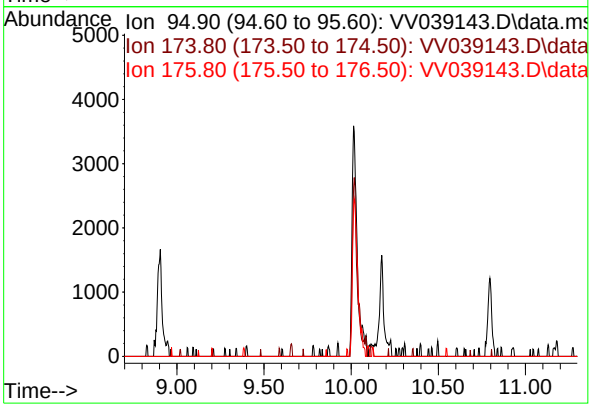
Tgt Ion: 95

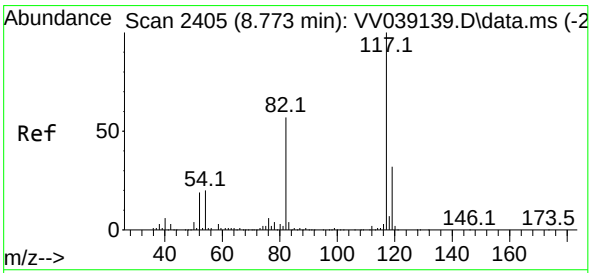
Sig	Exp Ratio
95	100
174	75.2
176	72.1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

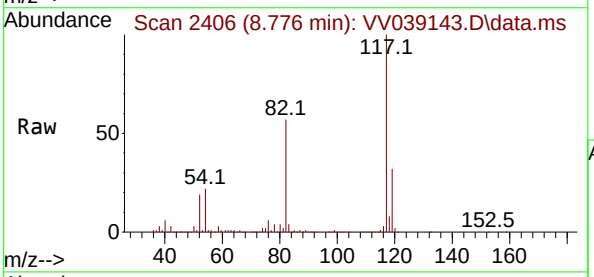


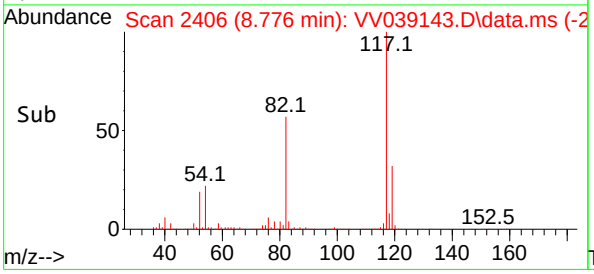


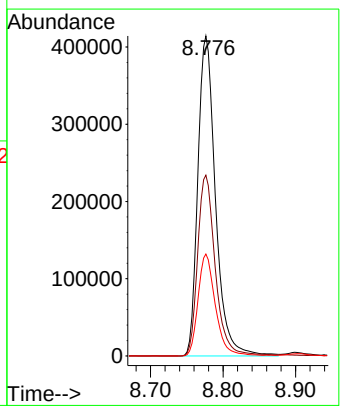
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

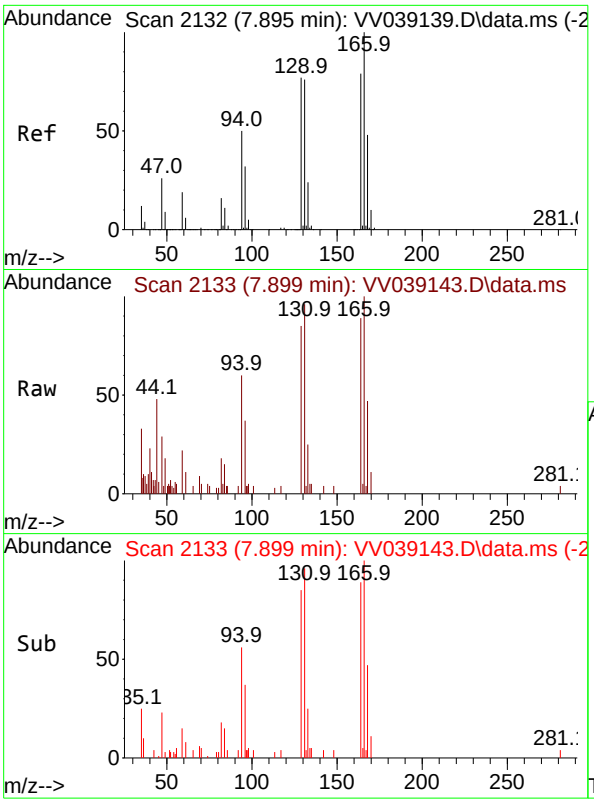
Tgt Ion:117 Resp: 700418

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.4	68.2
119	31.8	25.6	38.4





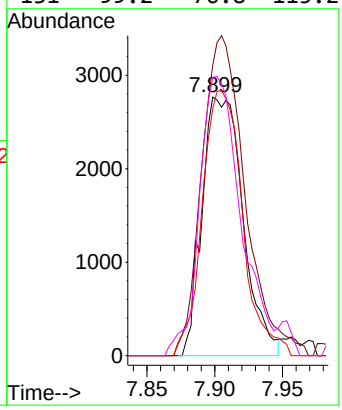




#64
Tetrachloroethene
Concen: 0.991 ug/l
RT: 7.899 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:164 Resp: 581

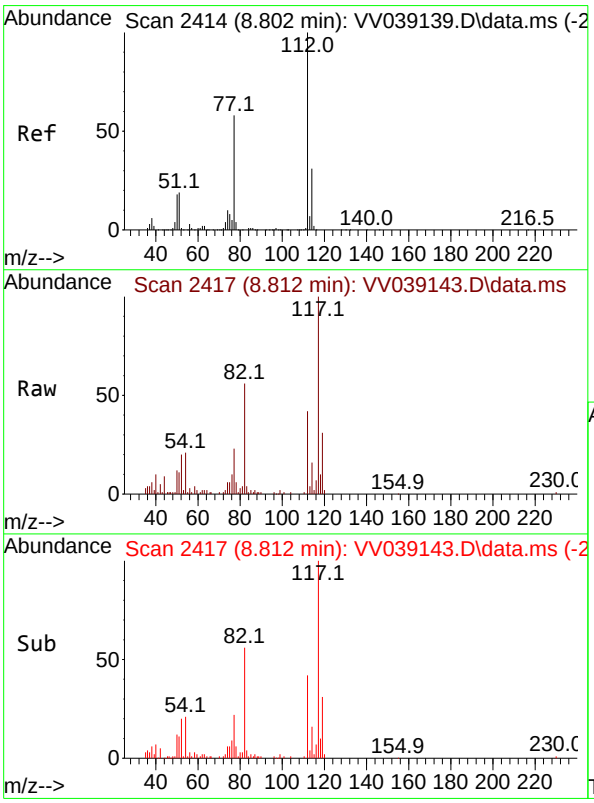
Ion	Ratio	Lower	Upper
164	100		
166	107.6	101.6	152.4
129	91.4	78.5	117.7
131	99.2	76.8	115.2



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

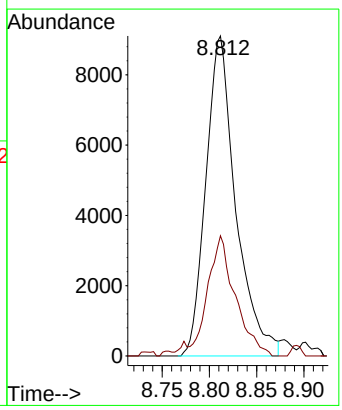
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

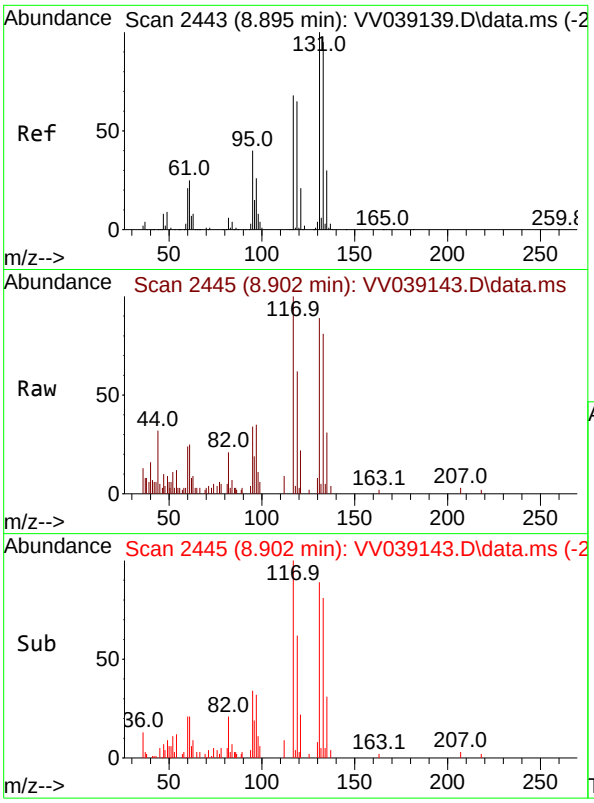


#65
Chlorobenzene
Concen: 1.025 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:112 Resp: 20007

Ion	Ratio	Lower	Upper
112	100		
114	37.5	24.6	37.0#

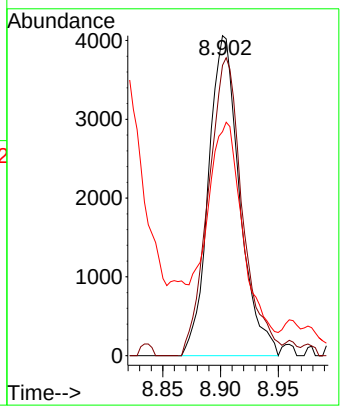




#66
1,1,1,2-Tetrachloroethane
Concen: 1.079 ug/l
RT: 8.902 min Scan# 24
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:131 Resp: 760

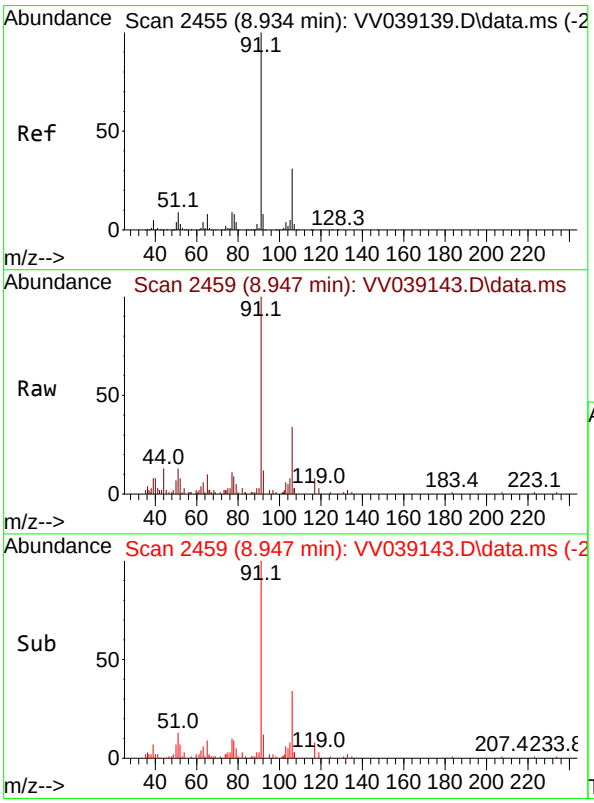
Ion	Ratio	Lower	Upper
131	100		
133	102.5	47.3	141.8
119	0.0	33.3	99.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

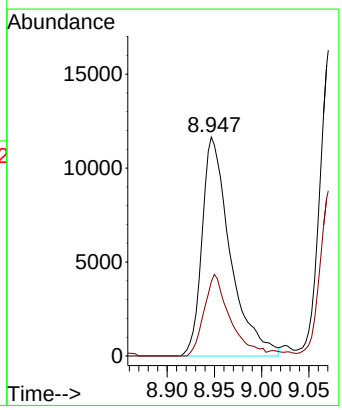
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

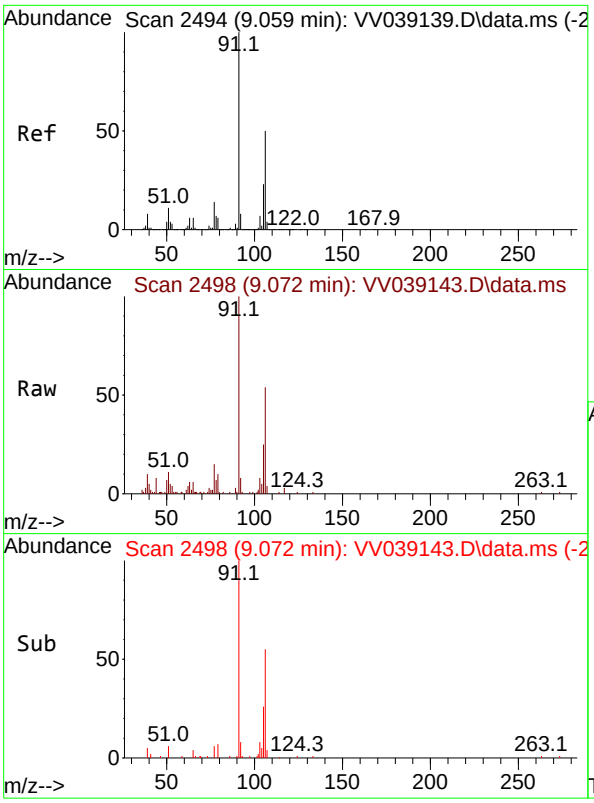


#67
Ethyl Benzene
Concen: 0.818 ug/l
RT: 8.947 min Scan# 2459
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 24171

Ion	Ratio	Lower	Upper
91	100		
106	33.9	24.6	37.0





#68
m/p-Xylenes
Concen: 1.425 ug/l
RT: 9.072 min Scan# 24
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

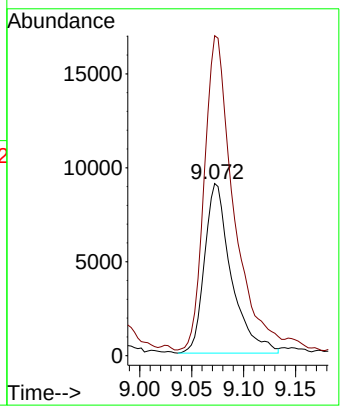
Tgt Ion:106 Resp: 1623

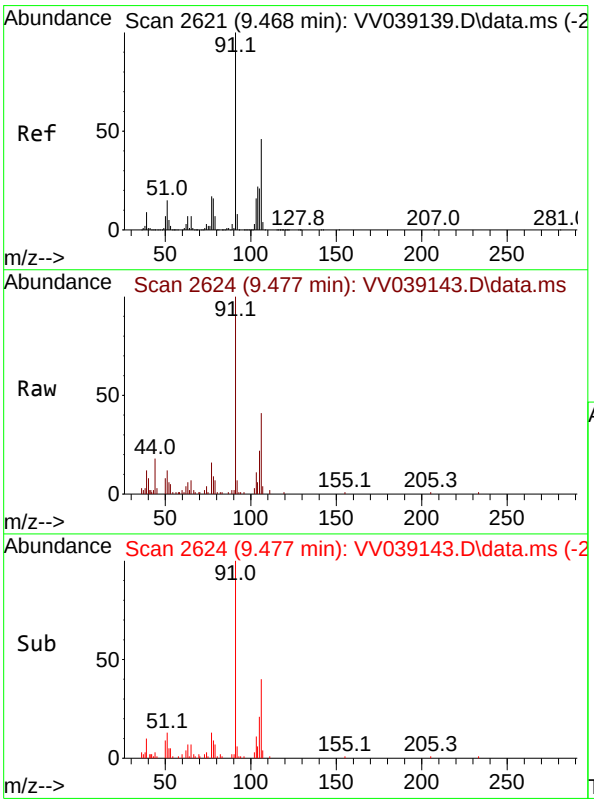
Ion	Ratio	Lower	Upper
106	100		
91	200.5	162.5	243.7

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

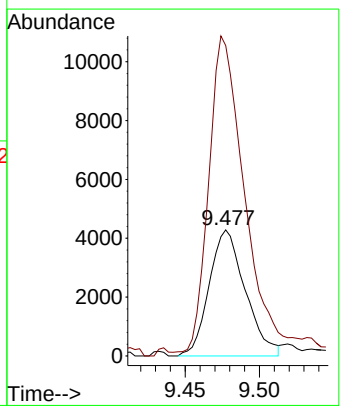


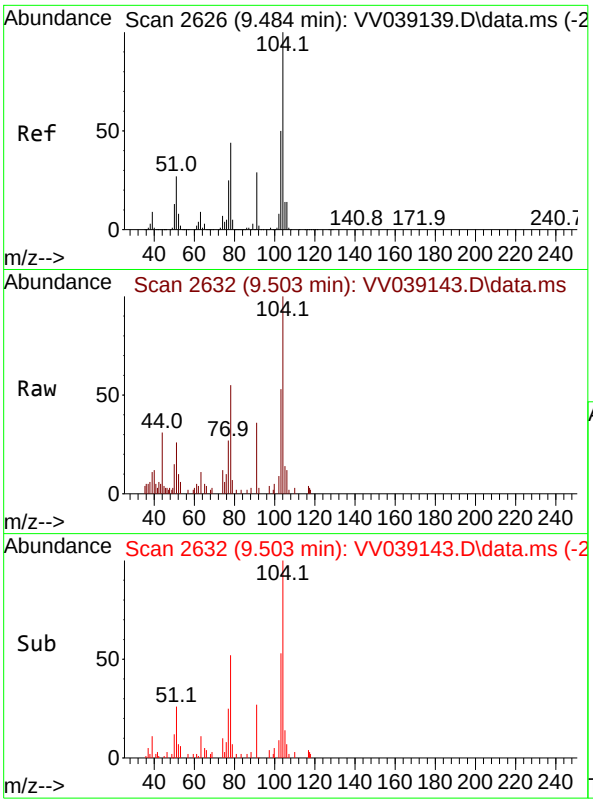


#69
o-Xylene
Concen: 0.718 ug/l
RT: 9.477 min Scan# 2624
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:106 Resp: 7250

Ion	Ratio	Lower	Upper
106	100		
91	252.4	109.1	327.3





#70
Styrene
Concen: 2.083 ug/l
RT: 9.503 min Scan# 2
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

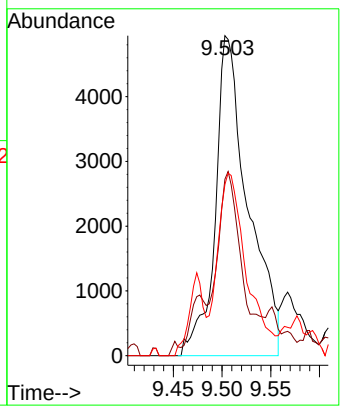
Tgt Ion:104 Resp: 1159

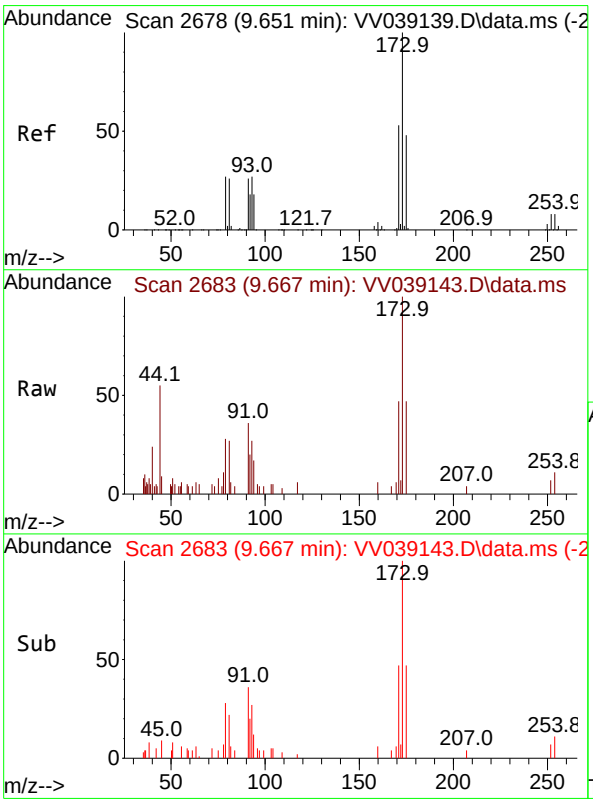
Ion	Ratio	Lower	Upper
104	100		
78	31.2	39.8	59.6#
103	43.9	43.4	65.2

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

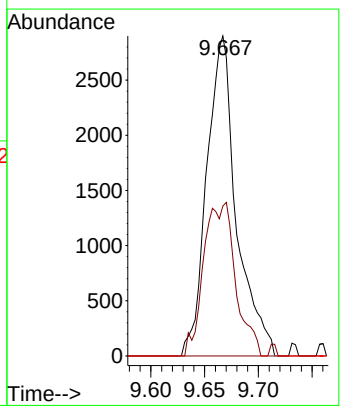


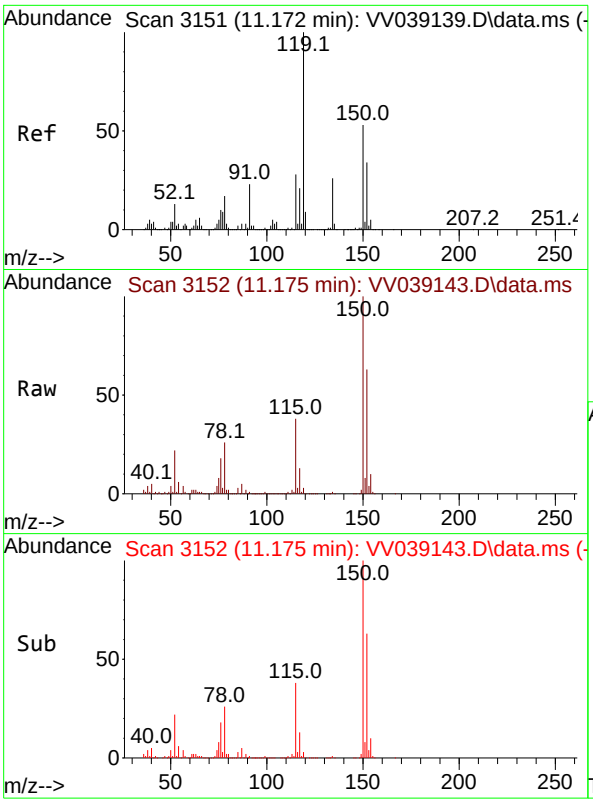


#71
Bromoform
Concen: 1.009 ug/l
RT: 9.667 min Scan# 2683
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:173 Resp: 5558

Ion	Ratio	Lower	Upper
173	100		
175	51.7	23.9	71.7
254	0.0	0.1	0.1#

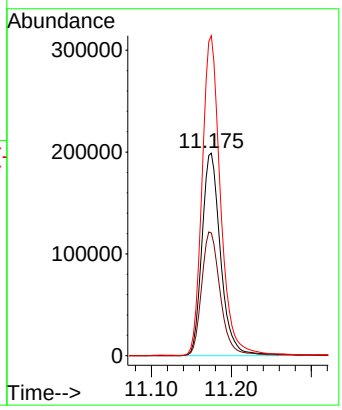




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:152 Resp: 32267

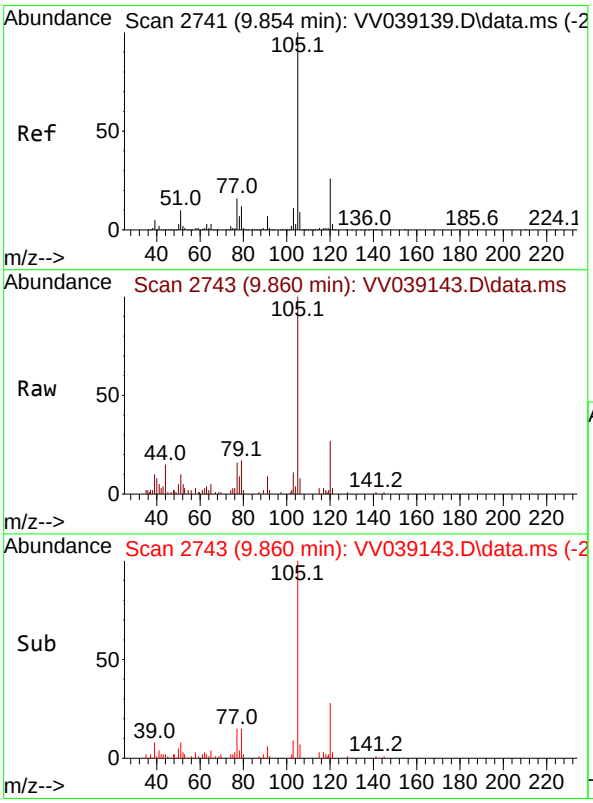
Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.8	134.4
150	156.1	0.0	353.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

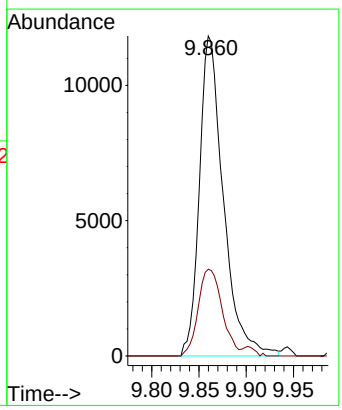
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

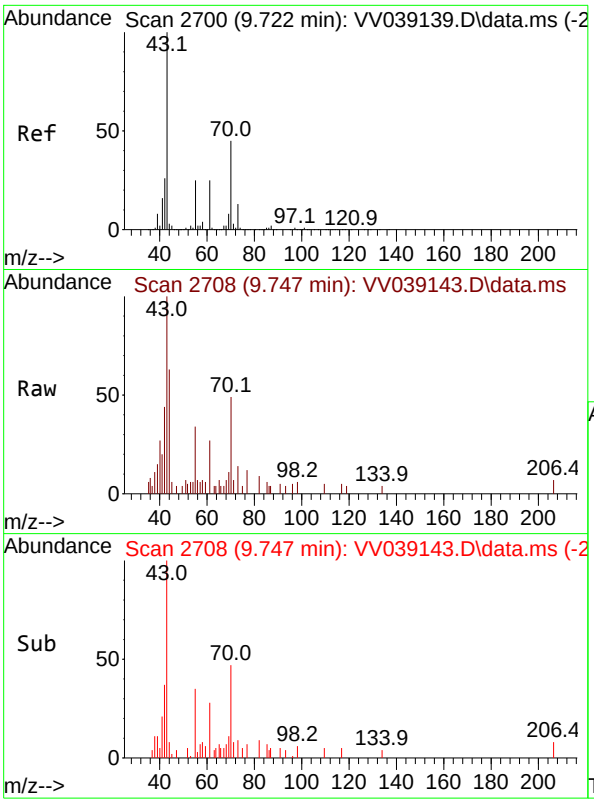


#73
Isopropylbenzene
Concen: 0.890 ug/l
RT: 9.860 min Scan# 2743
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 20820

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.1	39.1

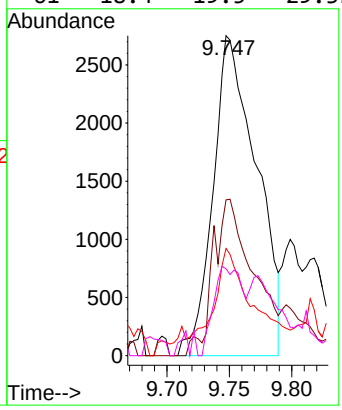




#74
N-amyl acetate
Concen: 0.713 ug/l
RT: 9.747 min Scan# 2
Delta R.T. 0.026 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 665

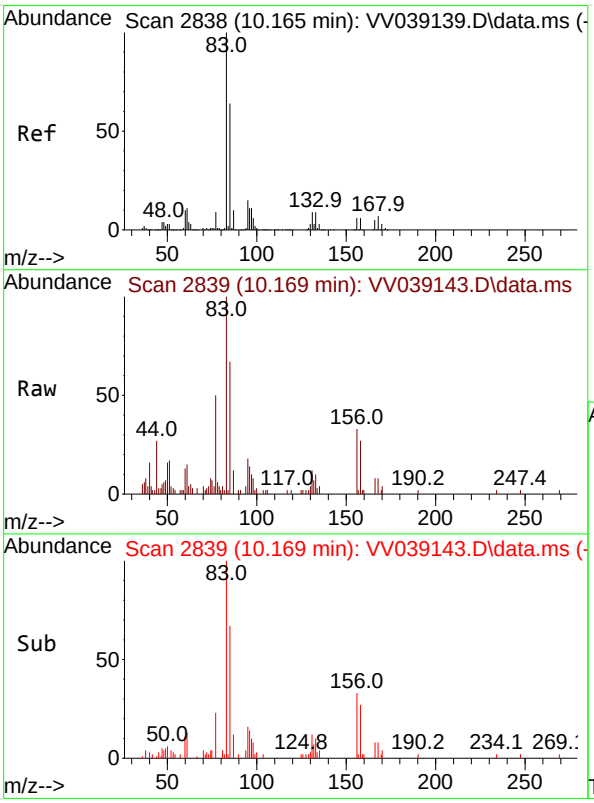
Ion	Ratio	Lower	Upper
43	100		
70	39.0	35.4	53.0
55	22.6	20.6	30.8
61	18.4	19.5	29.3#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

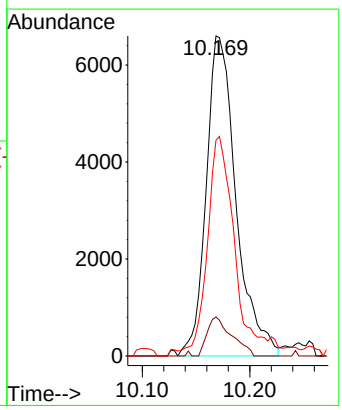
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

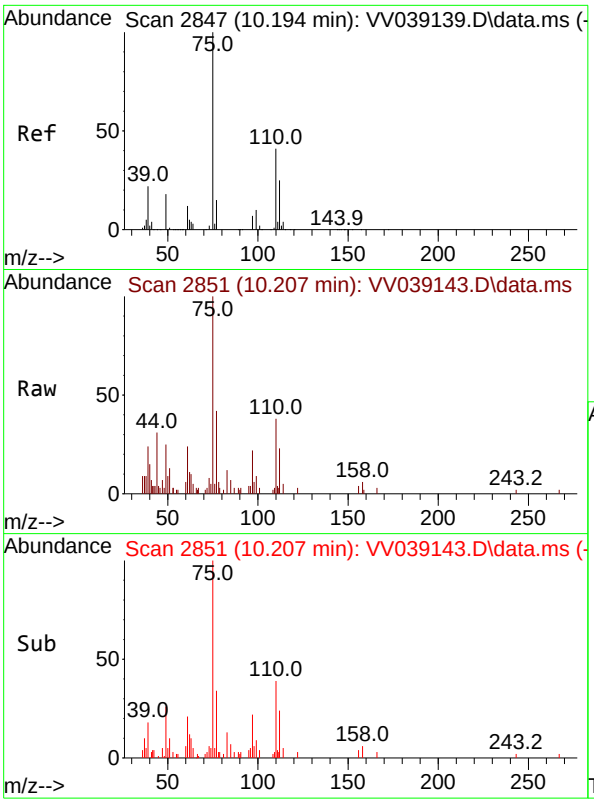


#75
1,1,2,2-Tetrachloroethane
Concen: 1.243 ug/l
RT: 10.169 min Scan# 2839
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12746

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.5	13.7
85	59.8	31.9	95.9





#76
1,2,3-Trichloropropane
Concen: 1.207 ug/l
RT: 10.207 min Scan# 2
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

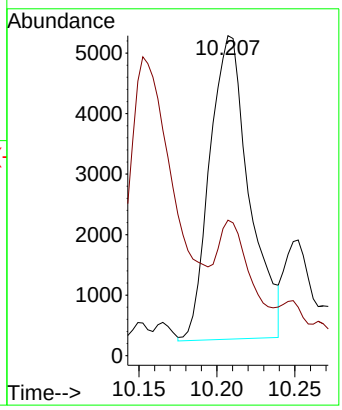
Tgt Ion: 75 Resp: 887

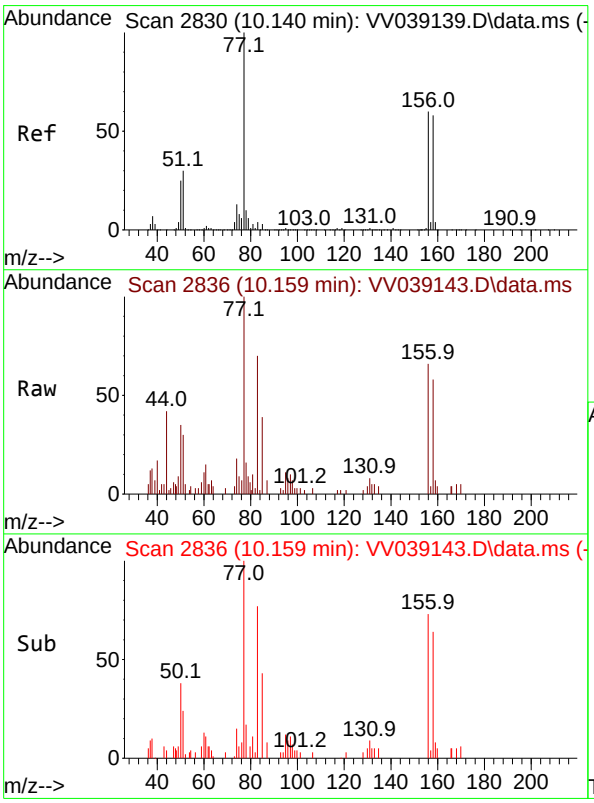
Ion	Ratio	Lower	Upper
75	100		
77	22.5	11.3	33.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

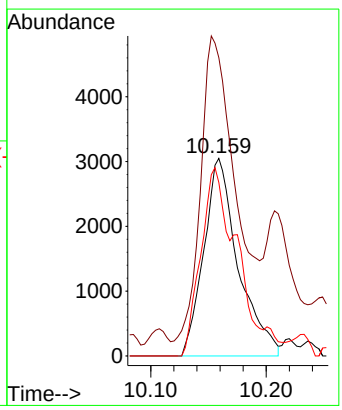


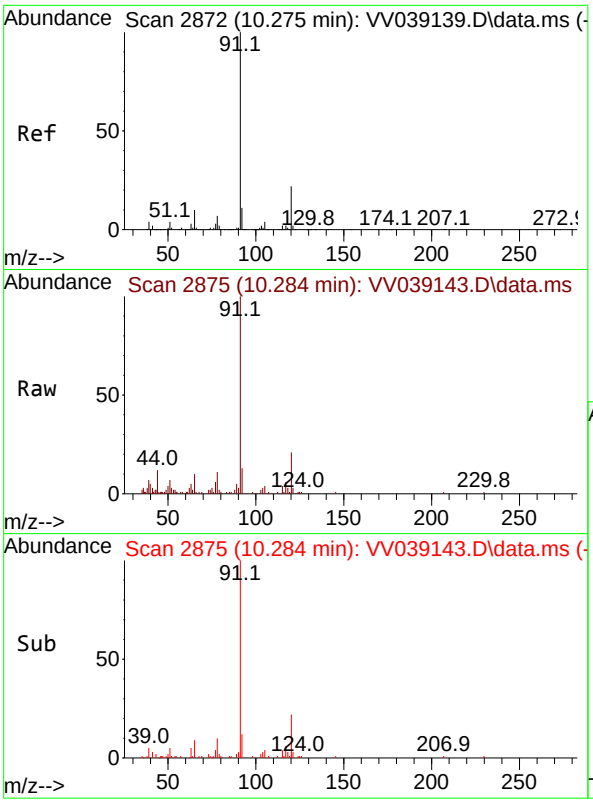


#77
Bromobenzene
Concen: 1.039 ug/l
RT: 10.159 min Scan# 2836
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:156 Resp: 6311

Ion	Ratio	Lower	Upper
156	100		
77	155.9	83.4	250.1
158	103.1	48.8	146.4





#78
n-propylbenzene
Concen: 0.877 ug/l
RT: 10.284 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

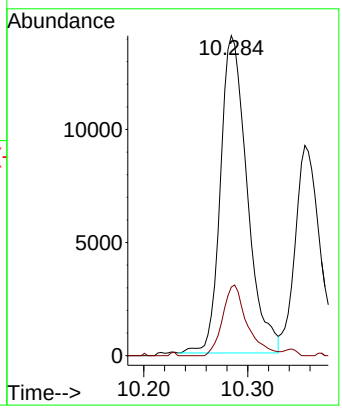
Tgt Ion: 91 Resp: 2499

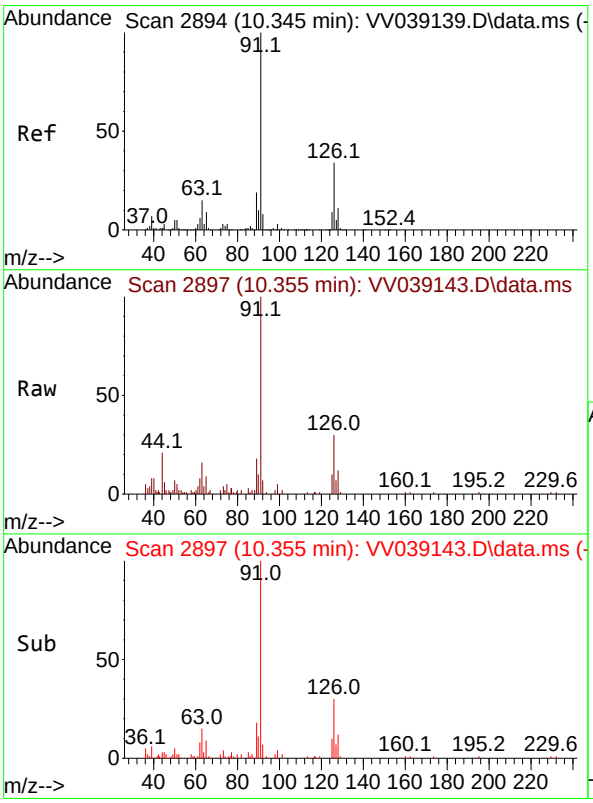
Ion	Ratio	Lower	Upper
91	100		
120	20.5	11.1	33.3

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

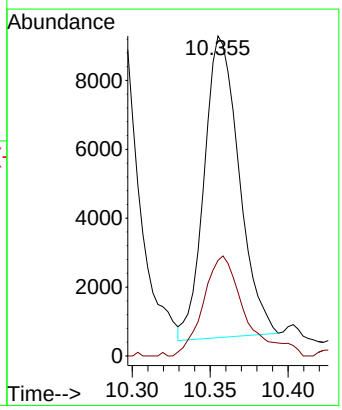


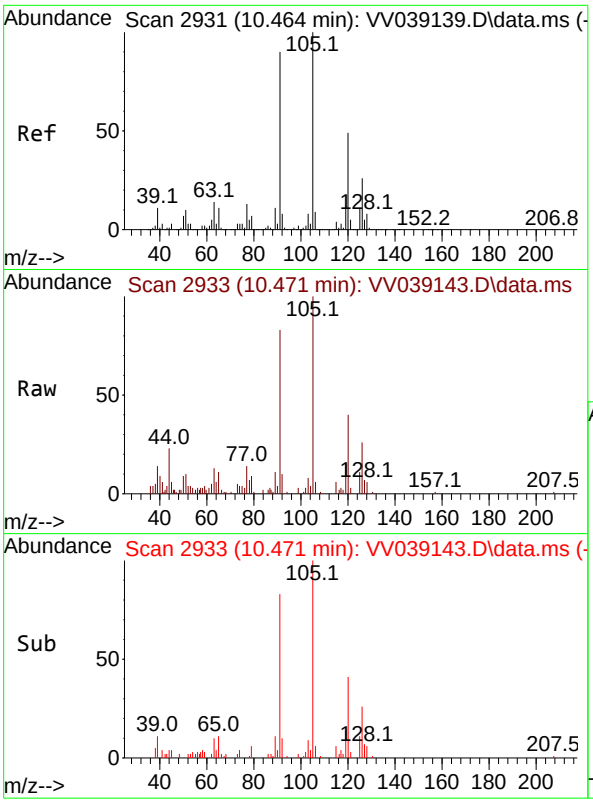


#79
2-Chlorotoluene
Concen: 0.800 ug/l
RT: 10.355 min Scan# 2897
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 13640

Ion	Ratio	Lower	Upper
91	100		
126	39.3	16.7	50.0





#80
1,3,5-Trimethylbenzene
Concen: 0.817 ug/l
RT: 10.471 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

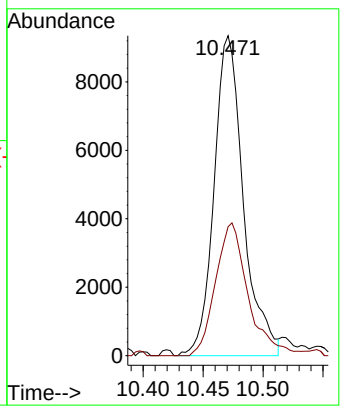
Tgt Ion:105 Resp: 1588

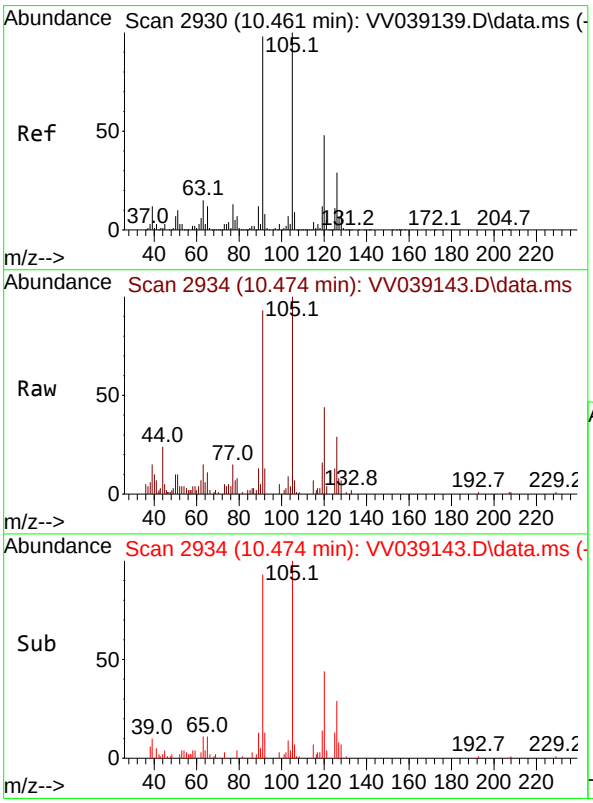
Ion	Ratio	Lower	Upper
105	100		
120	46.1	24.3	72.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

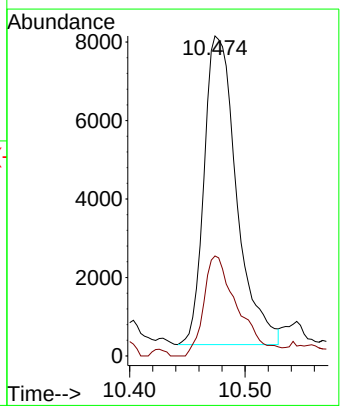


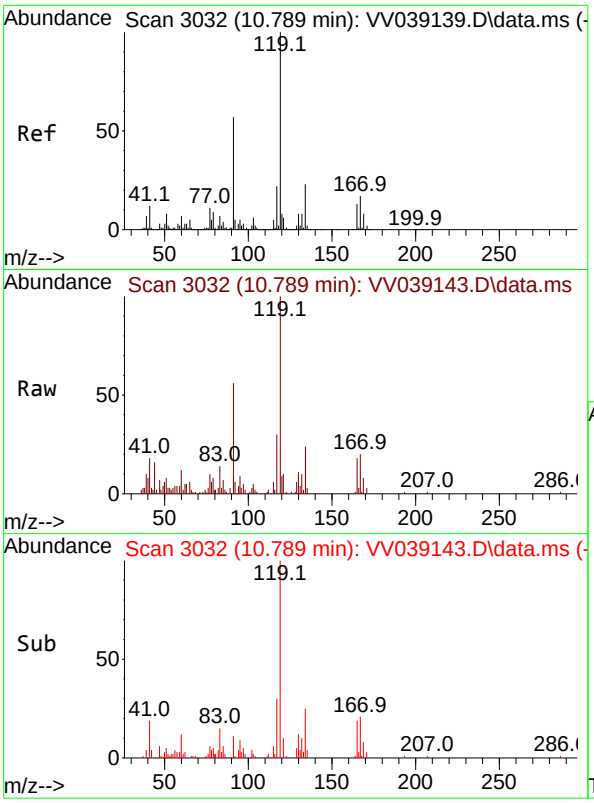


#82
4-Chlorotoluene
Concen: 0.777 ug/l
RT: 10.474 min Scan# 2934
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 15363

Ion	Ratio	Lower	Upper
91	100		
126	34.2	14.5	43.6





#83
tert-Butylbenzene
Concen: 0.956 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

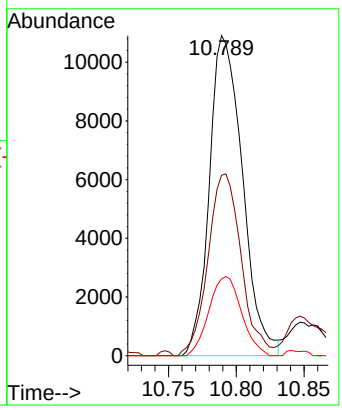
Tgt Ion:119 Resp: 1855

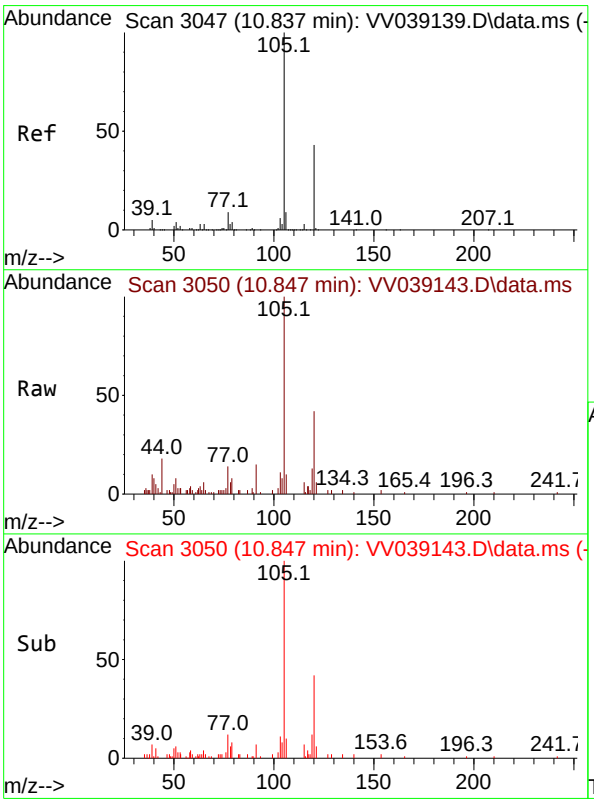
Ion	Ratio	Lower	Upper
119	100		
91	56.8	28.5	85.6
134	24.3	11.5	34.4

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

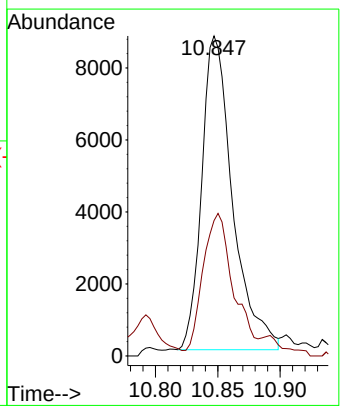


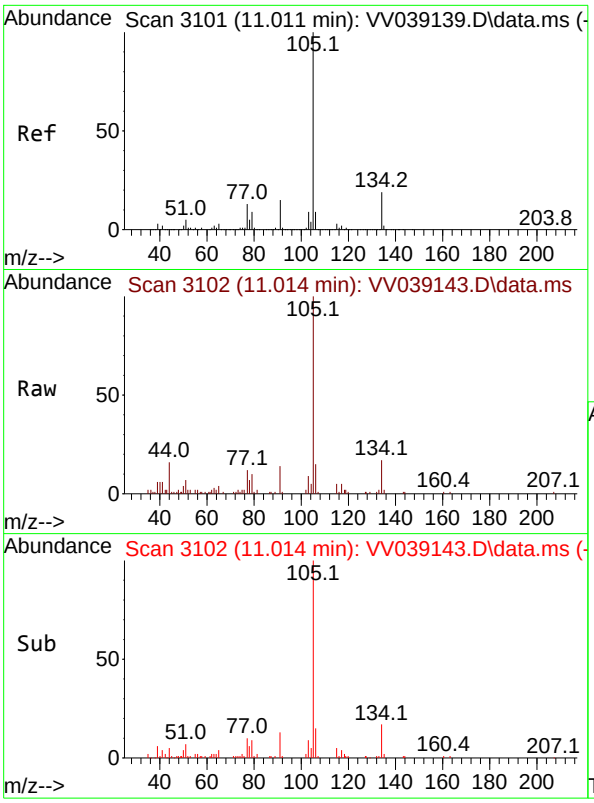


#84
1,2,4-Trimethylbenzene
Concen: 0.797 ug/l
RT: 10.847 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 15048

Ion	Ratio	Lower	Upper
105	100		
120	41.8	22.4	67.2





#85
sec-Butylbenzene
Concen: 0.904 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

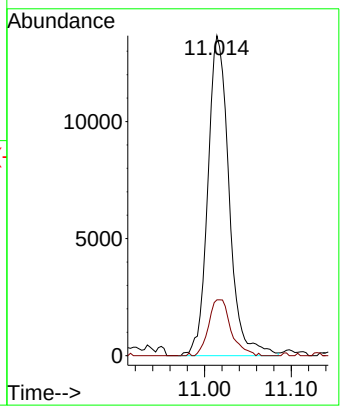
Tgt Ion:105 Resp: 2326

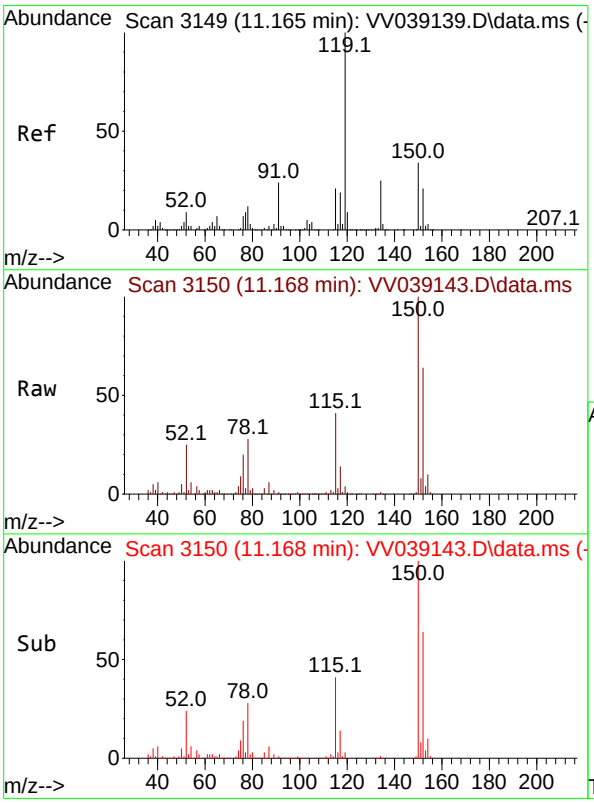
Ion	Ratio	Lower	Upper
105	100		
134	18.3	9.6	28.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

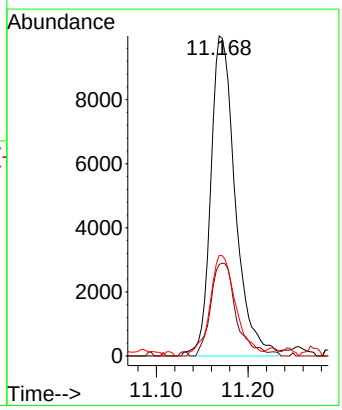


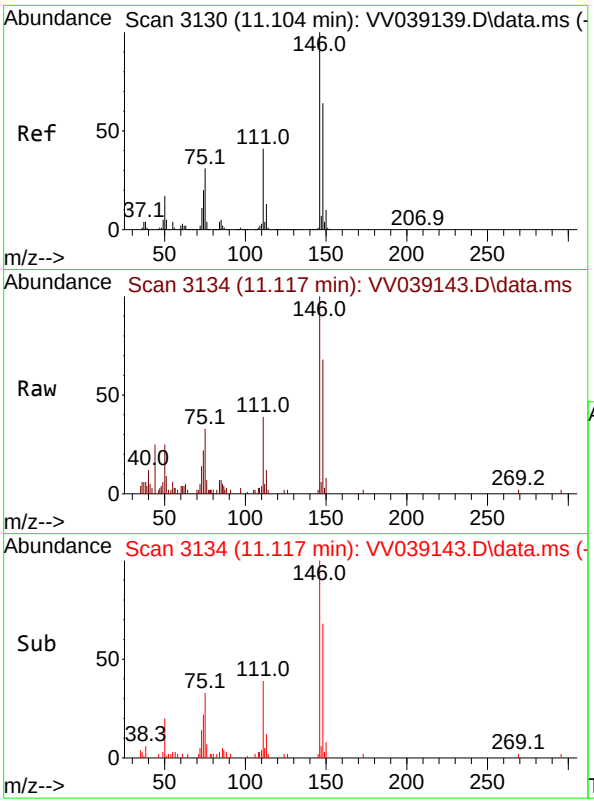


#86
p-Isopropyltoluene
Concen: 0.866 ug/l
RT: 11.168 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:119 Resp: 18549

Ion	Ratio	Lower	Upper
119	100		
134	29.9	12.7	38.0
91	33.1	12.0	36.1

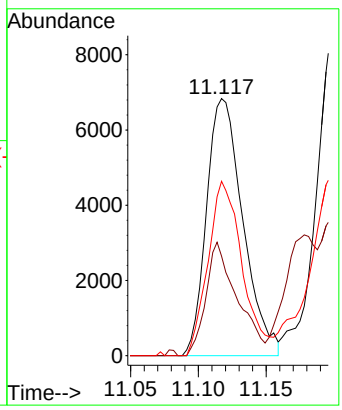




#87
1,3-Dichlorobenzene
Concen: 1.037 ug/l
RT: 11.117 min Scan# 3
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 1274

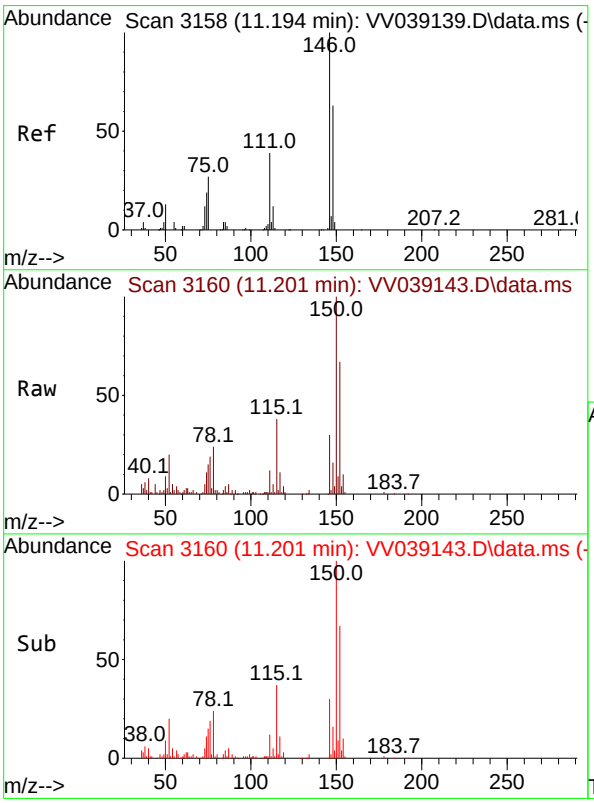
Ion	Ratio	Lower	Upper
146	100		
111	38.0	20.9	62.8
148	64.1	31.8	95.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

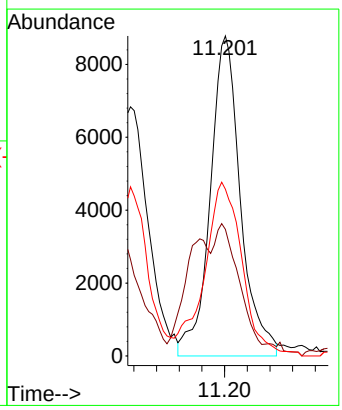
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

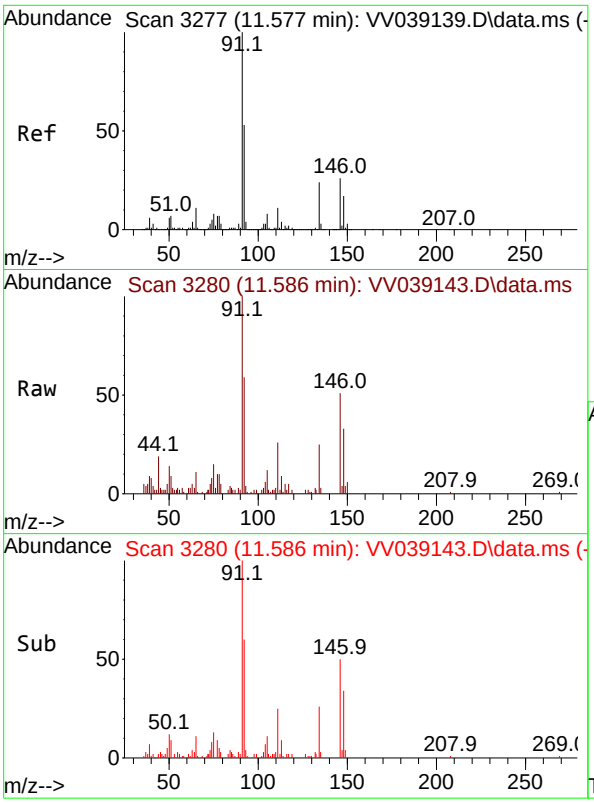


#88
1,4-Dichlorobenzene
Concen: 1.199 ug/l m
RT: 11.201 min Scan# 3160
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 16279

Ion	Ratio	Lower	Upper
146	100		
111	29.7	20.3	60.8
148	50.2	31.4	94.2





#89
n-Butylbenzene
Concen: 0.835 ug/l
RT: 11.586 min Scan# 3
Delta R.T. 0.009 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

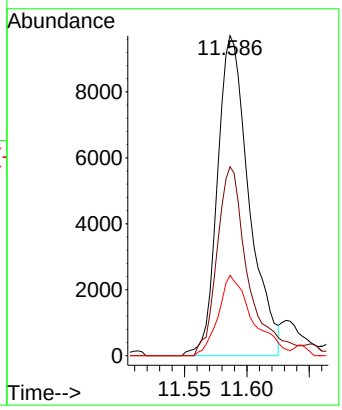
Tgt Ion: 91 Resp: 1707

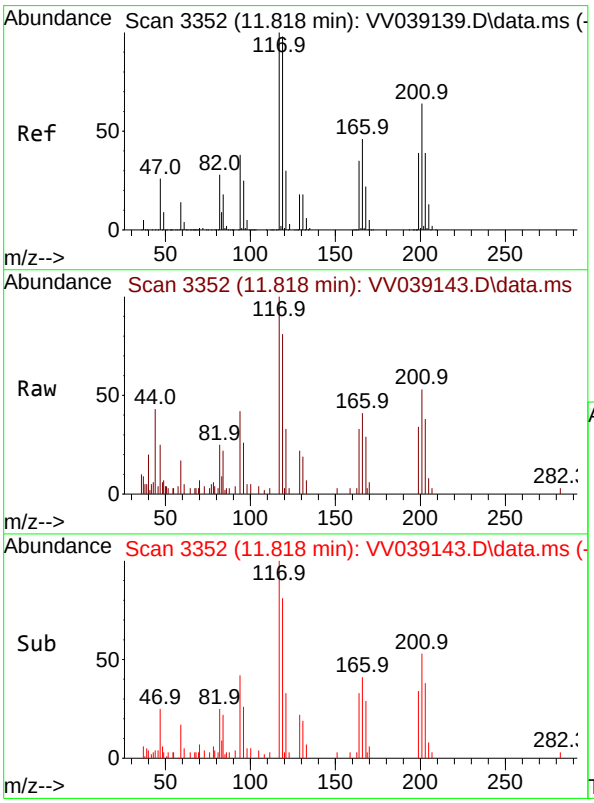
Ion	Ratio	Lower	Upper
91	100		
92	57.8	26.6	79.8
134	27.3	12.1	36.3

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

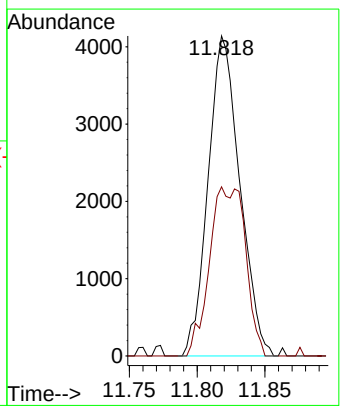


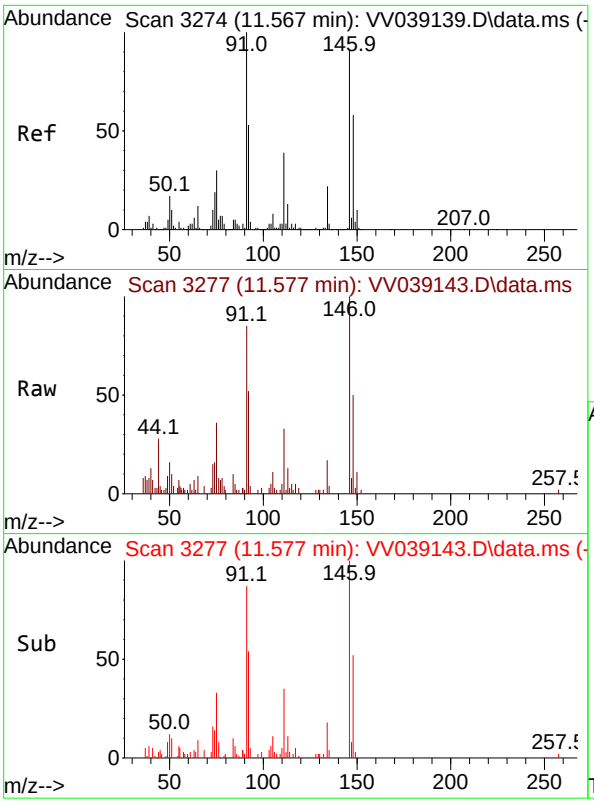


#90
Hexachloroethane
Concen: 1.277 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:117 Resp: 6736

Ion	Ratio	Lower	Upper
117	100		
201	60.0	32.3	96.8

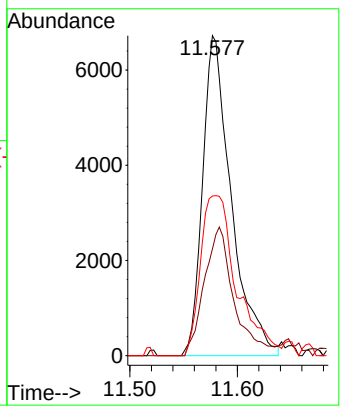




#91
1,2-Dichlorobenzene
Concen: 1.088 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 1248

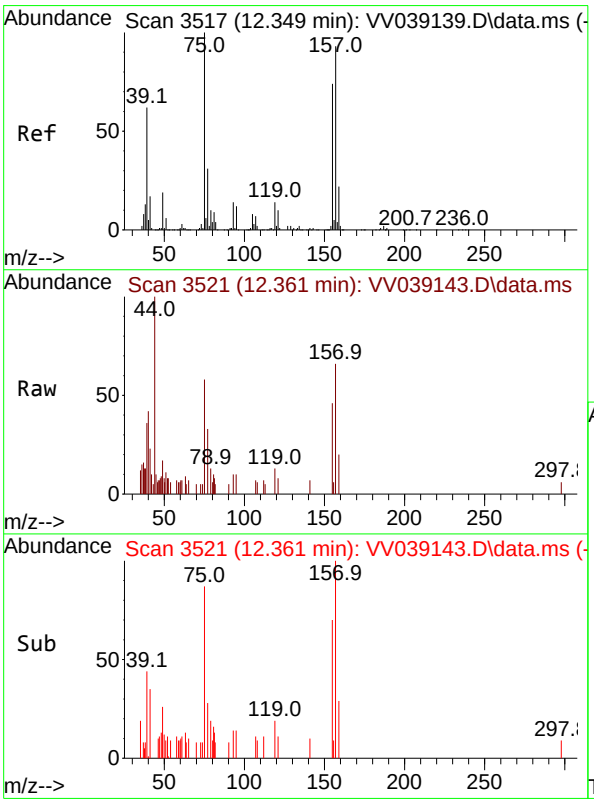
Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.5	64.5
148	63.0	31.9	95.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

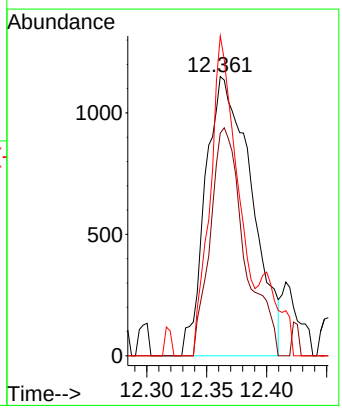
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

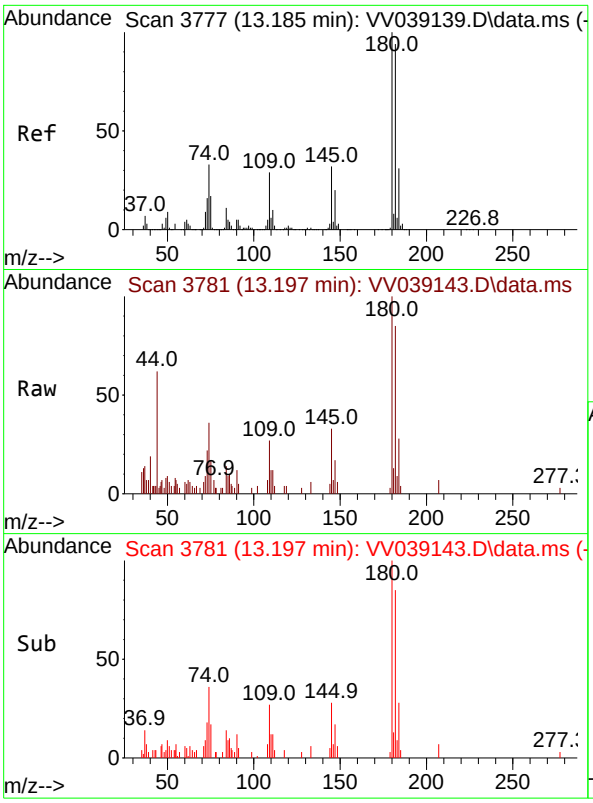


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.690 ug/l
RT: 12.361 min Scan# 3521
Delta R.T. 0.012 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 3071

Ion	Ratio	Lower	Upper
75	100		
155	60.9	38.6	115.8
157	68.7	49.5	148.3

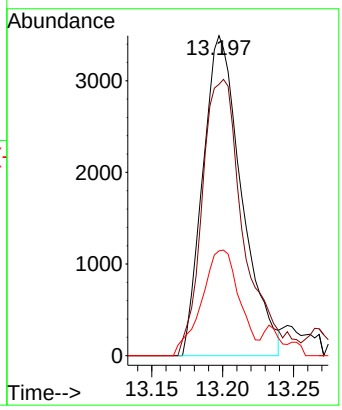




#93
1,2,4-Trichlorobenzene
Concen: 1.008 ug/l
RT: 13.197 min Scan# 3
Delta R.T. 0.012 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:180 Resp: 663

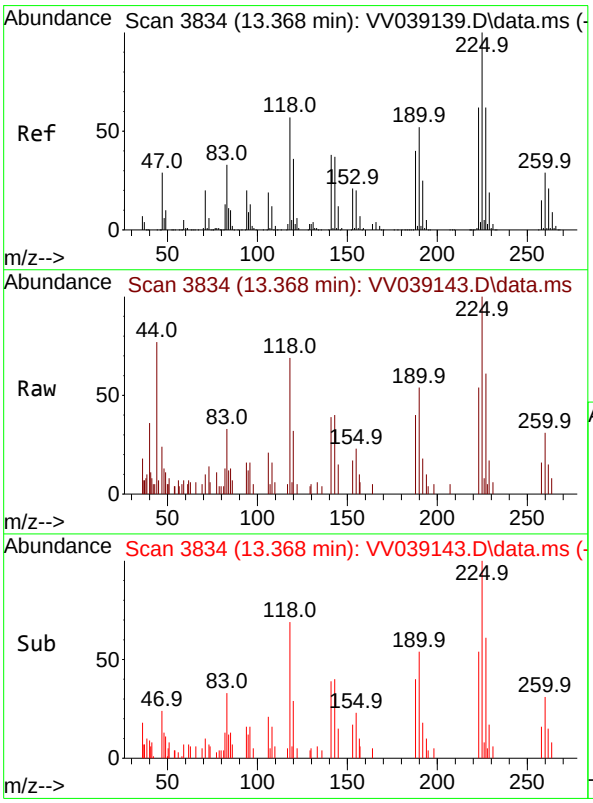
Ion	Ratio	Lower	Upper
180	100		
182	92.8	47.1	141.4
145	32.5	16.3	48.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

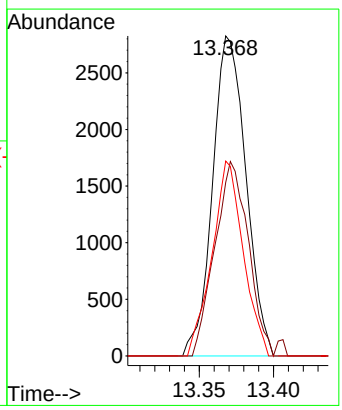
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

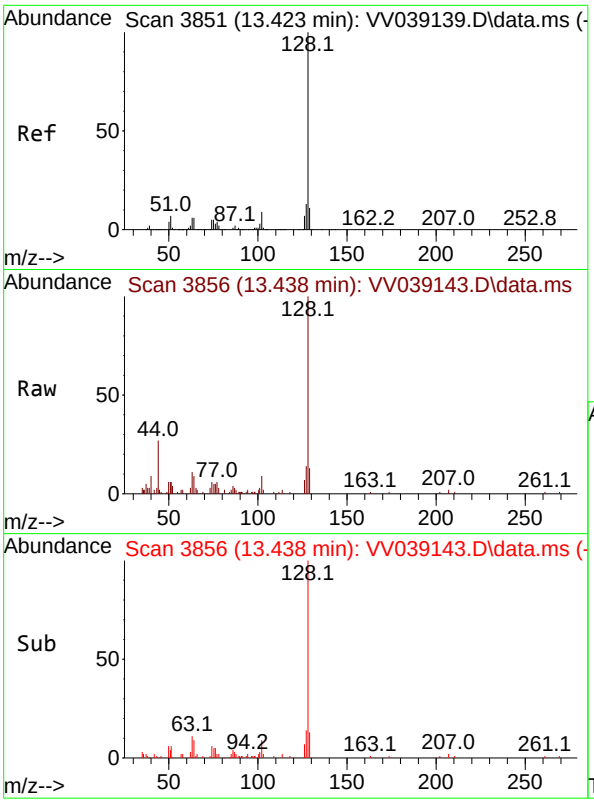


#94
Hexachlorobutadiene
Concen: 1.288 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:225 Resp: 4406

Ion	Ratio	Lower	Upper
225	100		
223	61.1	31.6	94.7
227	57.1	31.8	95.4

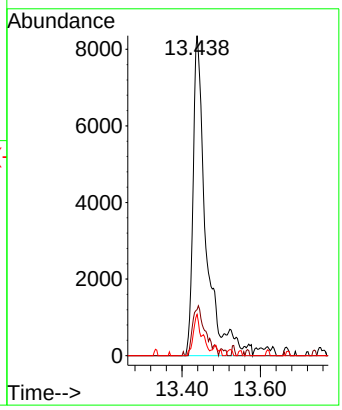




#95
Naphthalene
Concen: 0.931 ug/l m
RT: 13.438 min Scan# 3
Delta R.T. 0.015 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:128 Resp: 1970

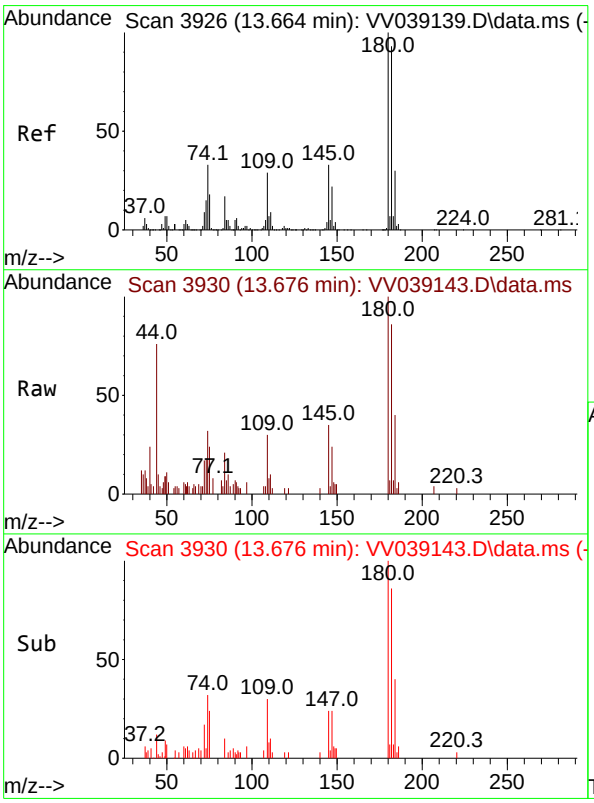
Ion	Ratio	Lower	Upper
128	100		
127	0.6	10.3	15.5#
129	0.6	8.6	13.0#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

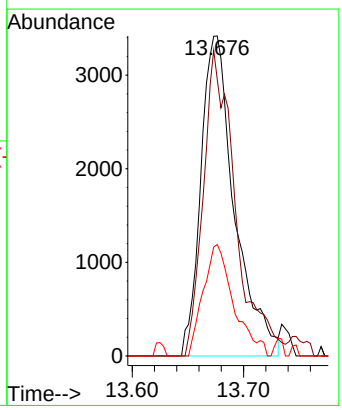
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.067 ug/l
RT: 13.676 min Scan# 3930
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:180 Resp: 7184

Ion	Ratio	Lower	Upper
180	100		
182	91.3	46.9	140.8
145	31.6	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	530687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	821122	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	811351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	500088	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	368982	48.041	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 96.080%			
35) Dibromofluoromethane	4.500	113	335549	50.832	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 101.660%			
50) Toluene-d8	7.236	98	1012009	52.199	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 104.400%			
62) 4-Bromofluorobenzene	10.001	95	453523	56.823	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 113.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	380034	45.238	ug/l	98
3) Chloromethane	1.230	50	419560	46.523	ug/l	99
4) Vinyl Chloride	1.298	62	438971	45.467	ug/l	100
5) Bromomethane	1.494	94	274408	45.085	ug/l	100
6) Chloroethane	1.558	64	288768	50.873	ug/l	97
7) Trichlorofluoromethane	1.725	101	649327	46.452	ug/l	98
8) Diethyl Ether	1.918	74	239410	46.136	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.082	101	386460	46.465	ug/l	98
10) Methyl Iodide	2.198	142	394299	49.783	ug/l	100
11) Tert butyl alcohol	2.571	59	409358	252.173	ug/l	99
12) 1,1-Dichloroethene	2.082	96	367440	45.922	ug/l	99
13) Acrolein	2.011	56	76596	271.925	ug/l	95
14) Allyl chloride	2.359	41	673070	47.092	ug/l	100
15) Acrylonitrile	2.674	53	1247029	239.637	ug/l	100
16) Acetone	2.117	43	1131047	237.325	ug/l	99
17) Carbon Disulfide	2.252	76	1114937	45.563	ug/l	99
18) Methyl Acetate	2.381	43	564211	49.579	ug/l	99
19) Methyl tert-butyl Ether	2.712	73	1204021	47.223	ug/l	100
20) Methylene Chloride	2.458	84	426790	51.536	ug/l	99
21) trans-1,2-Dichloroethene	2.703	96	391103	45.915	ug/l	100
22) Diisopropyl ether	3.217	45	1355158	49.556	ug/l	95
23) Vinyl Acetate	3.188	43	5946893	248.597	ug/l	100
24) 1,1-Dichloroethane	3.117	63	761495	45.536	ug/l	100
25) 2-Butanone	3.867	43	1611713	262.050	ug/l	99
26) 2,2-Dichloropropane	3.812	77	648277	43.721	ug/l	99
27) cis-1,2-Dichloroethene	3.818	96	459958	48.960	ug/l	99
28) Bromochloromethane	4.146	49	384995	52.149	ug/l	100
29) Tetrahydrofuran	4.236	42	1064545	276.528	ug/l	99
30) Chloroform	4.278	83	820367	46.980	ug/l	99
31) Cyclohexane	4.584	56	654806	47.799	ug/l	99
32) 1,1,1-Trichloroethane	4.513	97	709351	46.922	ug/l	99
36) 1,1-Dichloropropene	4.744	75	537027	53.809	ug/l	99
37) Ethyl Acetate	3.976	43	630342	52.050	ug/l	99
38) Carbon Tetrachloride	4.735	117	603187	49.452	ug/l	99
39) Methylcyclohexane	6.047	83	692131	57.426	ug/l	98
40) Benzene	5.008	78	1699505	52.293	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.159	41	282895	51.602	ug/l		99
42) 1,2-Dichloroethane	5.040	62	583550	51.245	ug/l		99
43) Isopropyl Acetate	5.194	43	924654	55.998	ug/l		99
44) Trichloroethene	5.831	130	384092	51.216	ug/l		95
45) 1,2-Dichloropropane	6.088	63	440211	54.495	ug/l		97
46) Dibromomethane	6.223	93	316032	51.116	ug/l		97
47) Bromodichloromethane	6.426	83	654836	51.232	ug/l		99
48) Methyl methacrylate	6.297	41	442395	59.104	ug/l		98
49) 1,4-Dioxane	6.291	88	136899	1133.346	ug/l		99
51) 4-Methyl-2-Pentanone	7.149	43	3292794	303.119	ug/l		100
52) Toluene	7.307	92	1064972	56.517	ug/l		99
53) t-1,3-Dichloropropene	7.574	75	621814	55.823	ug/l		99
54) cis-1,3-Dichloropropene	6.947	75	690532	56.154	ug/l		98
55) 1,1,2-Trichloroethane	7.760	97	432856	51.231	ug/l		99
56) Ethyl methacrylate	7.715	69	610159	60.810	ug/l		99
57) 1,3-Dichloropropane	7.934	76	716955	53.769	ug/l		100
58) 2-Chloroethyl Vinyl ether	6.812	63	1474938	259.936	ug/l		99
59) 2-Hexanone	8.063	43	2462493	280.545	ug/l		100
60) Dibromochloromethane	8.169	129	499908	51.926	ug/l		99
61) 1,2-Dibromoethane	8.272	107	460510	53.295	ug/l		100
64) Tetrachloroethene	7.895	164	346271	50.954	ug/l		99
65) Chlorobenzene	8.802	112	1153503	51.041	ug/l		99
66) 1,1,1,2-Tetrachloroethane	8.899	131	409401	50.136	ug/l		100
67) Ethyl Benzene	8.937	91	1964943	57.438	ug/l		100
68) m/p-Xylenes	9.062	106	1592118	120.582	ug/l		100
69) o-Xylene	9.468	106	706301	60.414	ug/l		98
70) Styrene	9.484	104	1306032	52.671	ug/l		99
71) Bromoform	9.654	173	335410	52.585	ug/l	#	98
73) Isopropylbenzene	9.857	105	1966280	54.210	ug/l		100
74) N-amyl acetate	9.725	43	841099	58.135	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.165	83	724860	45.610	ug/l		100
76) 1,2,3-Trichloropropane	10.197	75	563785m	49.515	ug/l		
77) Bromobenzene	10.140	156	462931	49.193	ug/l		99
78) n-propylbenzene	10.278	91	2444658	55.347	ug/l		99
79) 2-Chlorotoluene	10.349	91	1412046	53.426	ug/l		99
80) 1,3,5-Trimethylbenzene	10.464	105	1709353	56.698	ug/l		99
81) trans-1,4-Dichloro-2-b...	9.927	75	247871	52.262	ug/l		99
82) 4-Chlorotoluene	10.461	91	1680201	54.824	ug/l		100
83) tert-Butylbenzene	10.789	119	1610870	53.584	ug/l		100
84) 1,2,4-Trimethylbenzene	10.837	105	1695994	57.944	ug/l		100
85) sec-Butylbenzene	11.011	105	2189540	54.911	ug/l		100
86) p-Isopropyltoluene	11.165	119	1841747	55.495	ug/l		100
87) 1,3-Dichlorobenzene	11.104	146	939483	49.328	ug/l		99
88) 1,4-Dichlorobenzene	11.194	146	971665	46.502	ug/l		99
89) n-Butylbenzene	11.580	91	1798412	56.740	ug/l		100
90) Hexachloroethane	11.818	117	370188	45.296	ug/l		98
91) 1,2-Dichlorobenzene	11.567	146	878347	49.362	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.349	75	150399	52.479	ug/l		98
93) 1,2,4-Trichlorobenzene	13.185	180	533045	52.259	ug/l		99
94) Hexachlorobutadiene	13.368	225	243496	45.942	ug/l		99
95) Naphthalene	13.422	128	1919772	58.231	ug/l		100
96) 1,2,3-Trichlorobenzene	13.667	180	549079	52.633	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

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

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

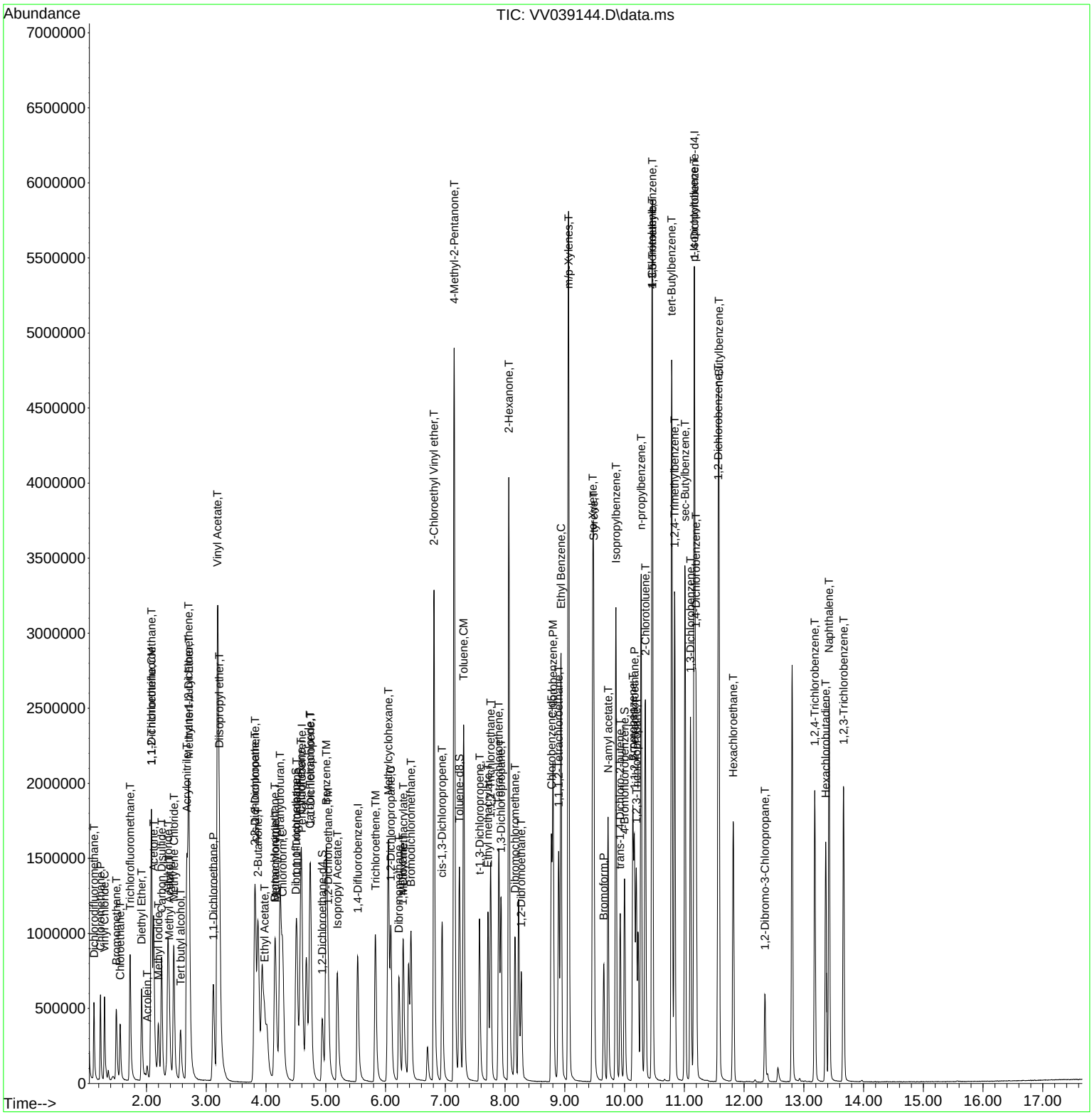
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

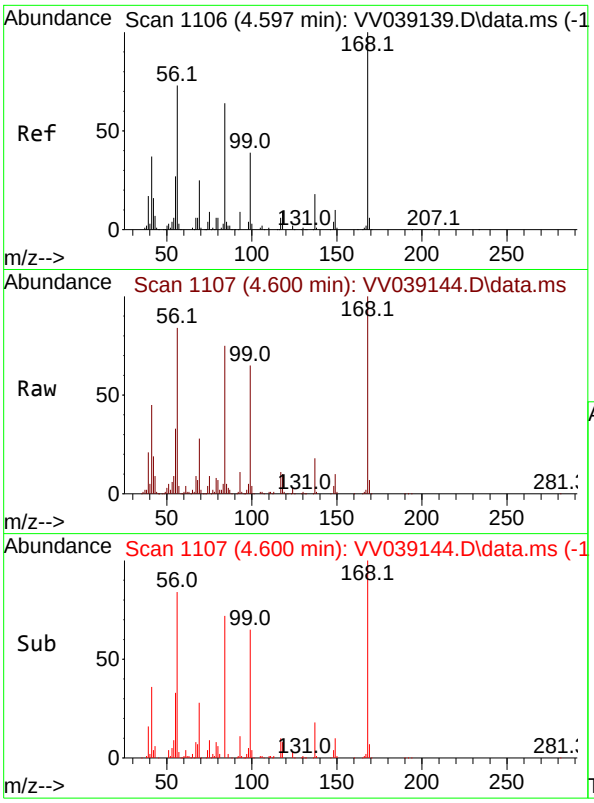
Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

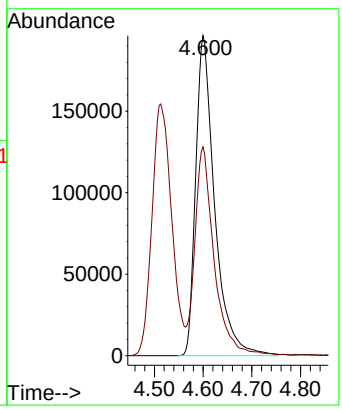




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:168 Resp: 53068

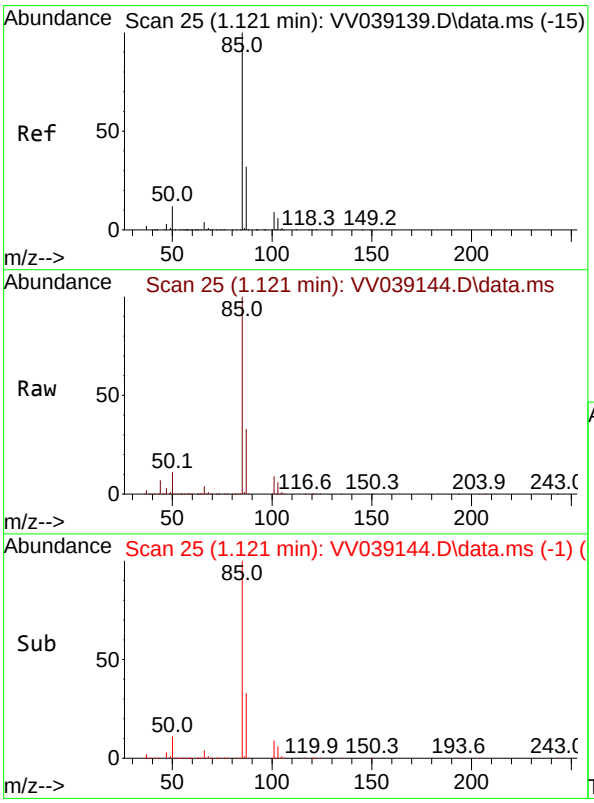
Ion	Ratio	Lower	Upper
168	100		
99	64.8	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

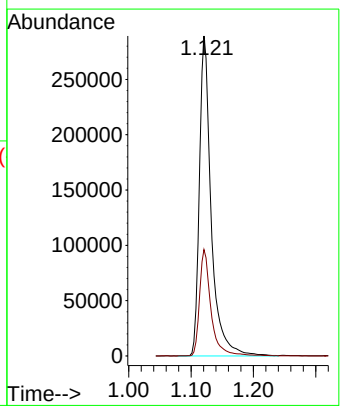
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

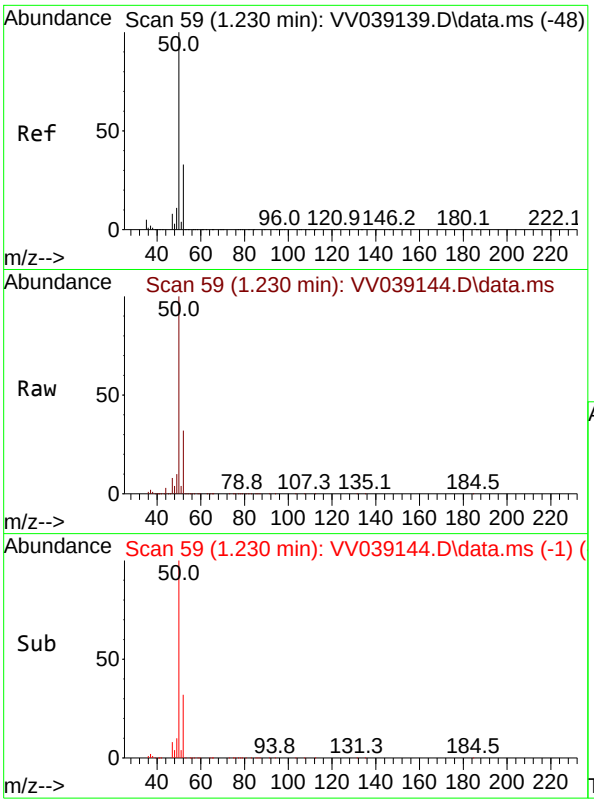


#2
Dichlorodifluoromethane
Concen: 45.238 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 85 Resp: 380034

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.0	47.9

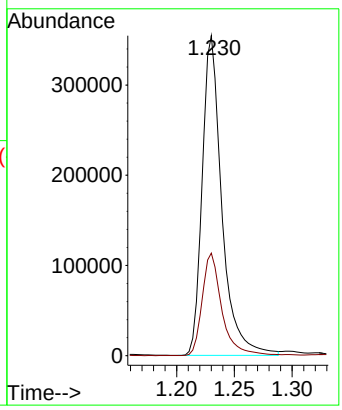




#3
Chloromethane
Concen: 46.523 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 50 Resp: 41956

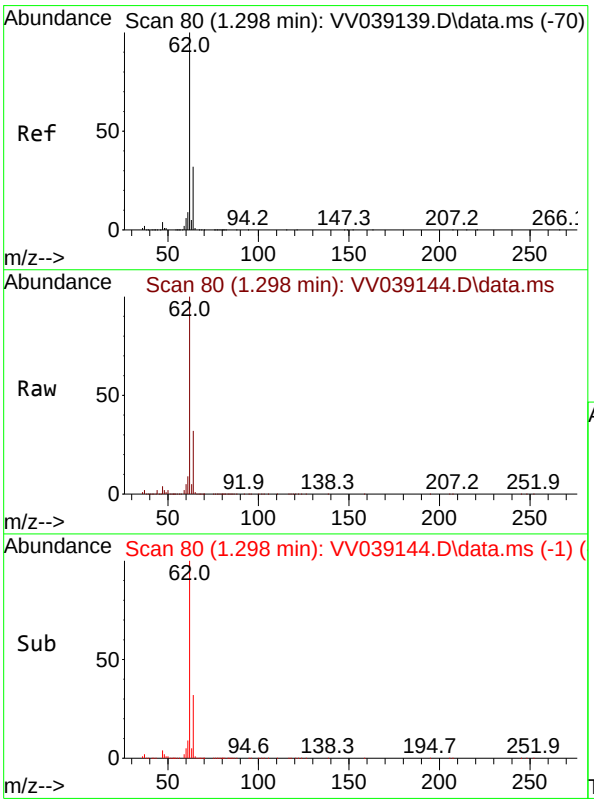
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.0	39.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

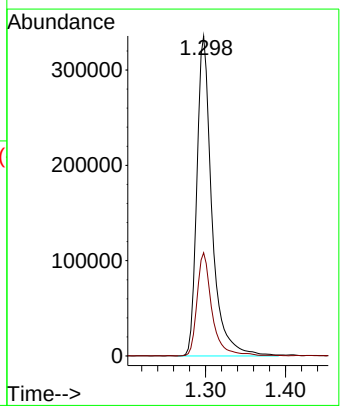
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

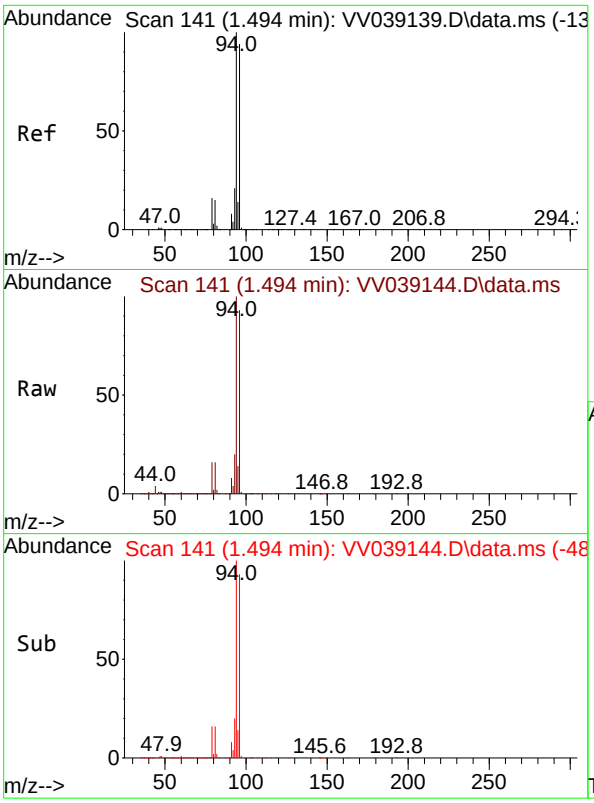


#4
Vinyl Chloride
Concen: 45.467 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 62 Resp: 438971

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.6	38.4





#5
Bromomethane
Concen: 45.085 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

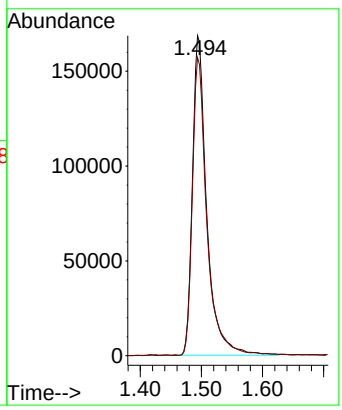
Tgt Ion: 94 Resp: 27440

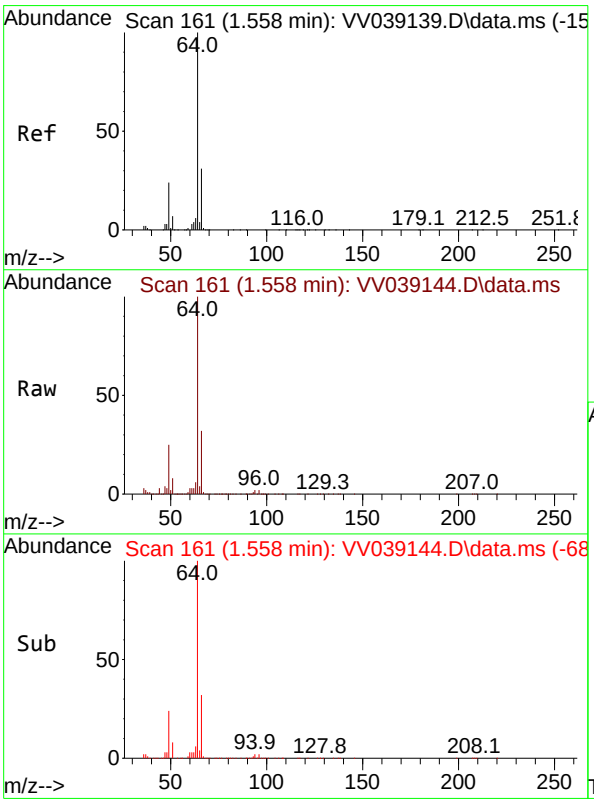
Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.9	112.3

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

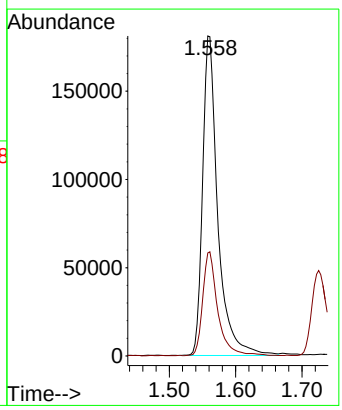


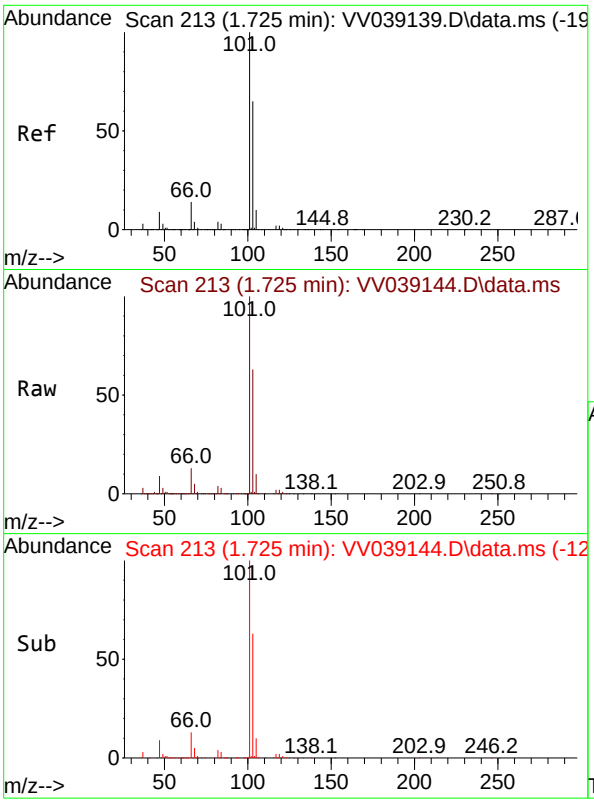


#6
Chloroethane
Concen: 50.873 ug/l
RT: 1.558 min Scan# 161
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 64 Resp: 288768

Ion	Ratio	Lower	Upper
64	100		
66	32.1	24.6	36.8

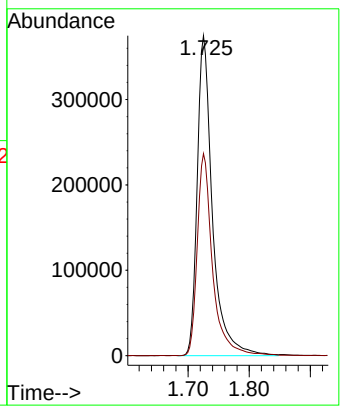




#7
Trichlorofluoromethane
Concen: 46.452 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:101 Resp: 64932

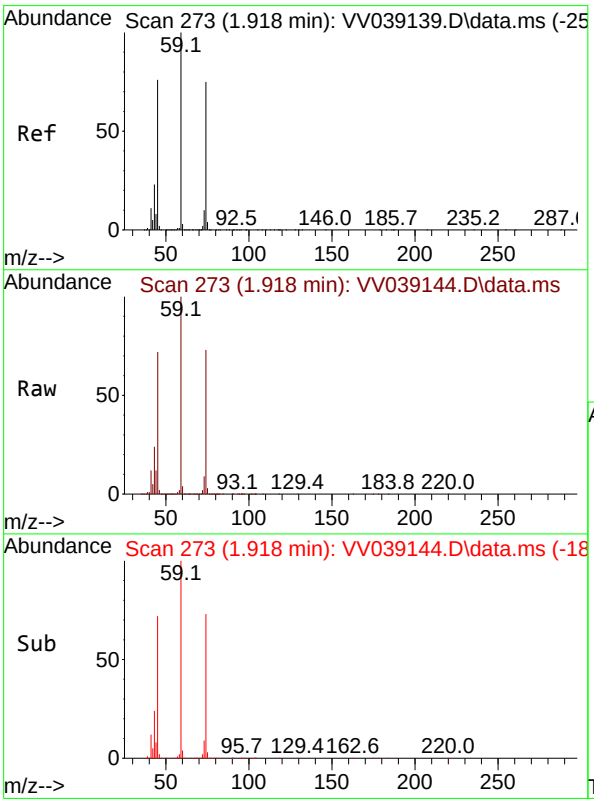
Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.0	78.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

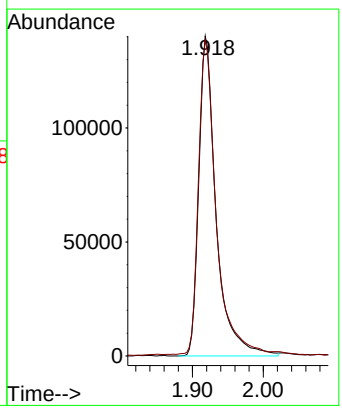
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

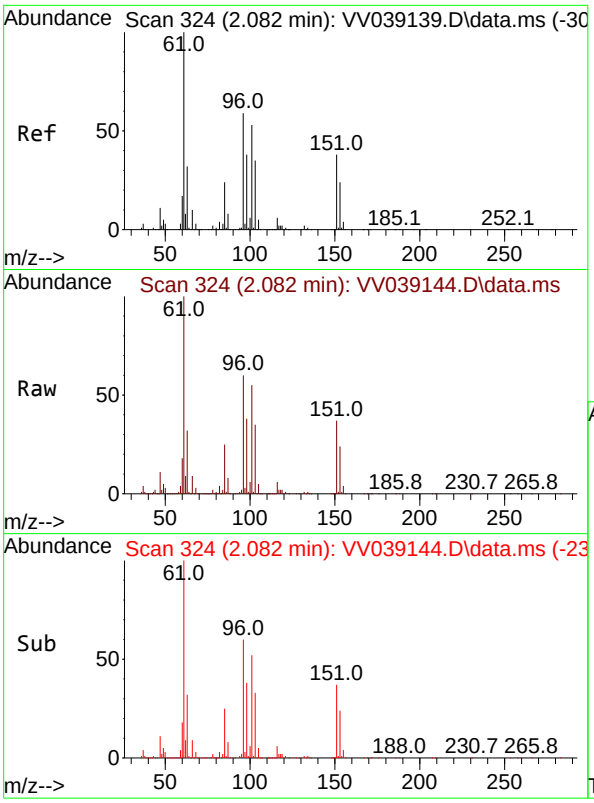


#8
Diethyl Ether
Concen: 46.136 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 74 Resp: 239410

Ion	Ratio	Lower	Upper
74	100		
45	98.9	49.6	148.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.465 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

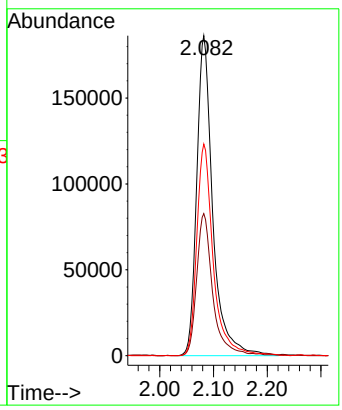
Tgt Ion:101 Resp: 38646

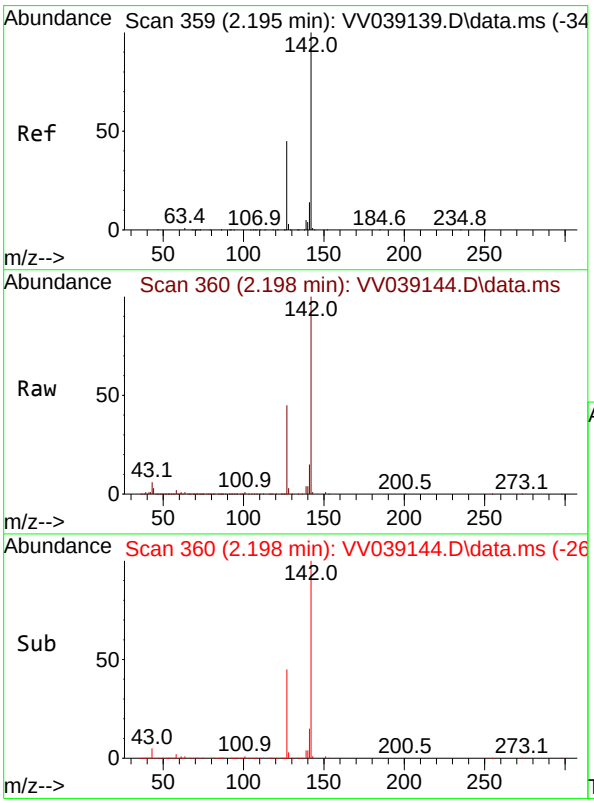
Ion	Ratio	Lower	Upper
101	100		
85	44.1	36.2	54.2
151	68.0	56.3	84.5

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

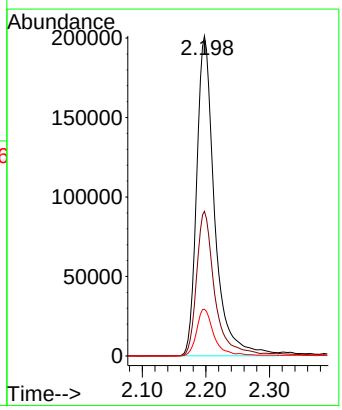


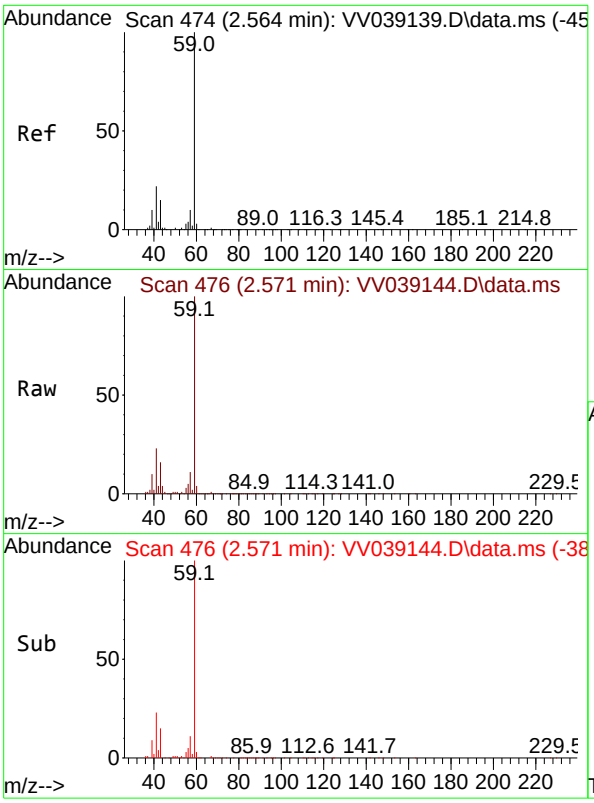


#10
Methyl Iodide
Concen: 49.783 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:142 Resp: 394299

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.3	54.5
141	13.8	11.2	16.8

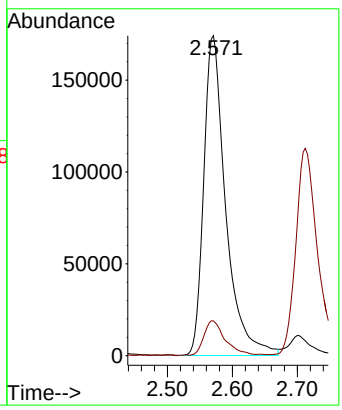




#11
Tert butyl alcohol
Concen: 252.173 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 59 Resp: 40935

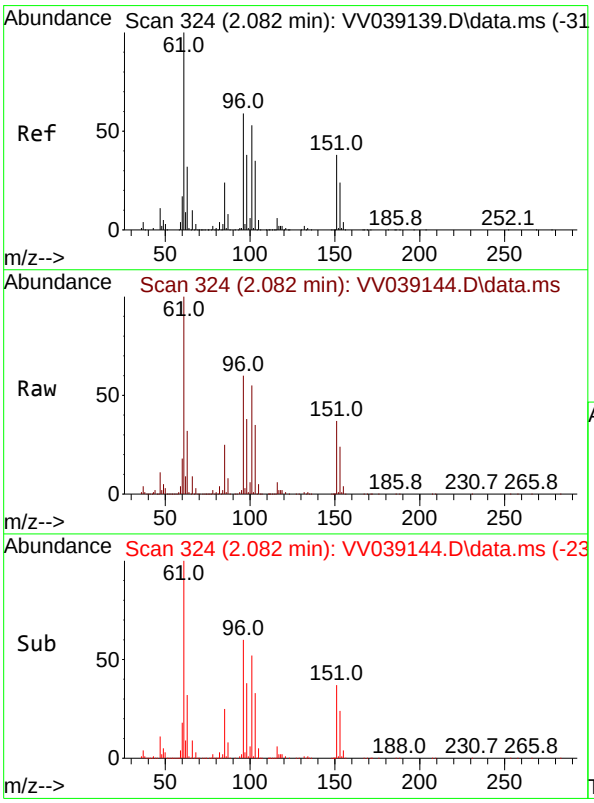
Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.8	11.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

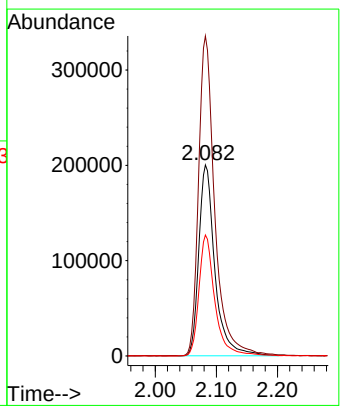
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

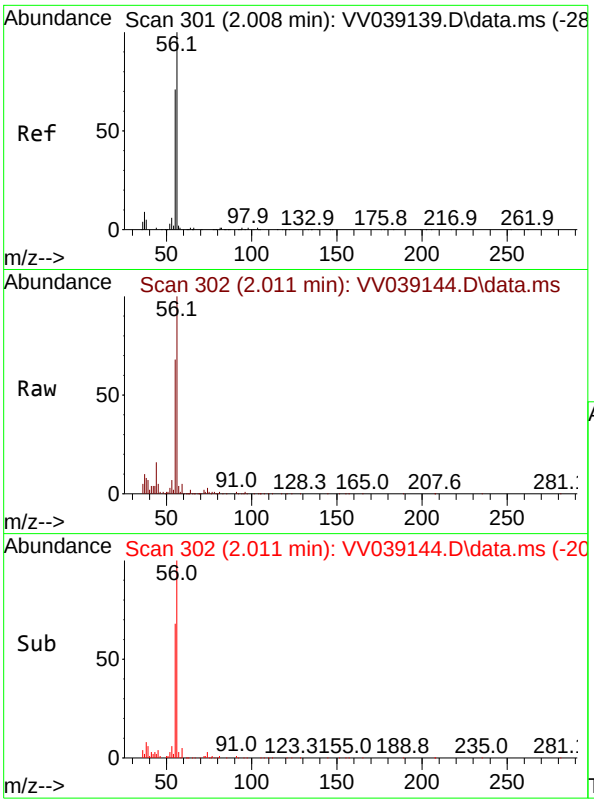


#12
1,1-Dichloroethene
Concen: 45.922 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 367440

Ion	Ratio	Lower	Upper
96	100		
61	167.5	136.0	204.0
98	63.3	51.0	76.6

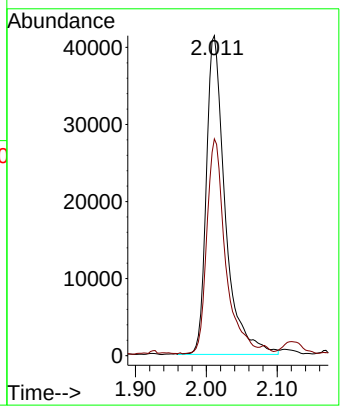




#13
Acrolein
Concen: 271.925 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 56 Resp: 7659

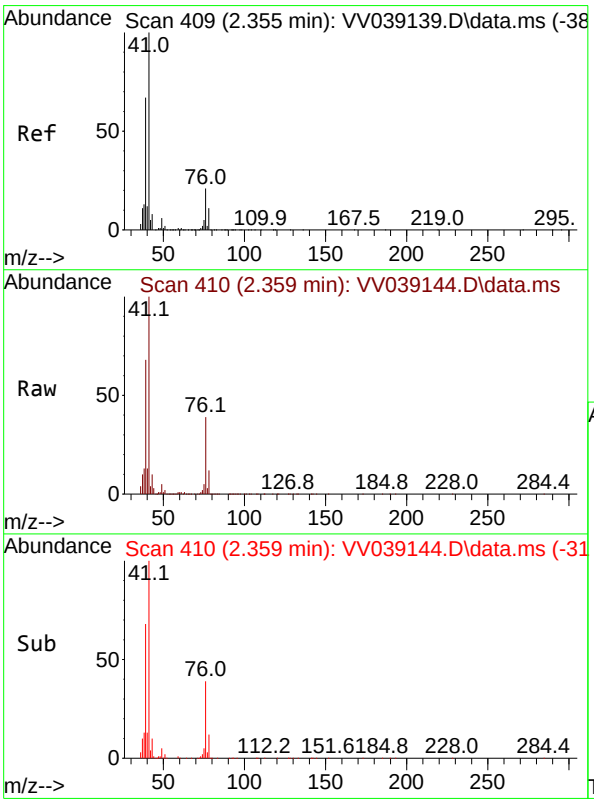
Ion	Ratio	Lower	Upper
56	100		
55	66.3	56.2	84.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

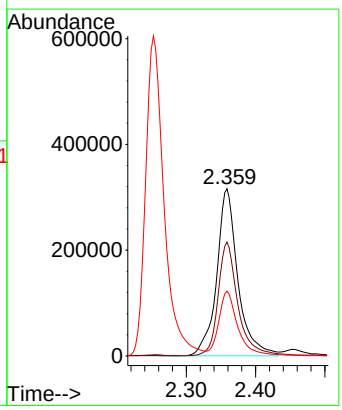
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

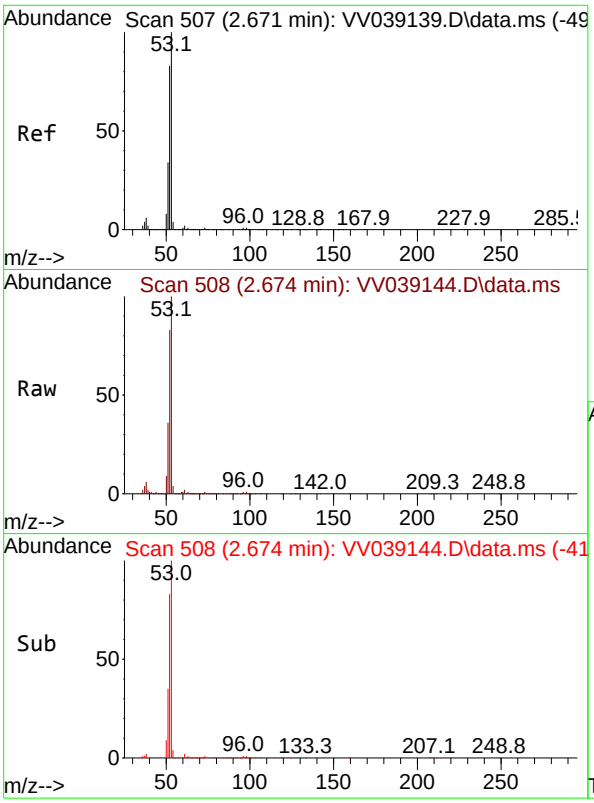


#14
Allyl chloride
Concen: 47.092 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 673070

Ion	Ratio	Lower	Upper
41	100		
39	63.6	51.0	76.6
76	34.9	28.2	42.4

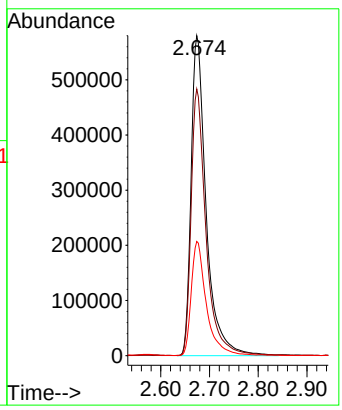




#15
Acrylonitrile
Concen: 239.637 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 53 Resp: 124702

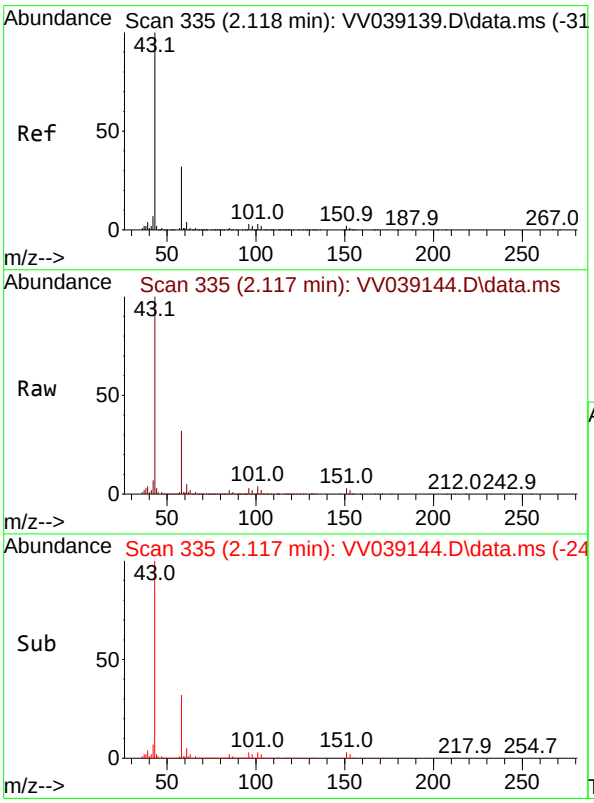
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.1	99.1
51	35.7	28.5	42.7



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

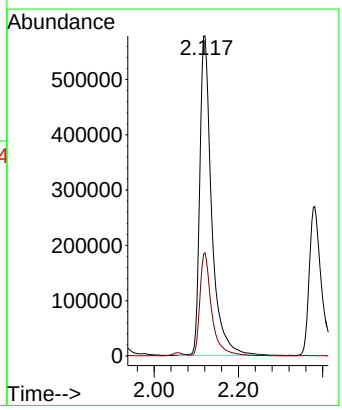
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

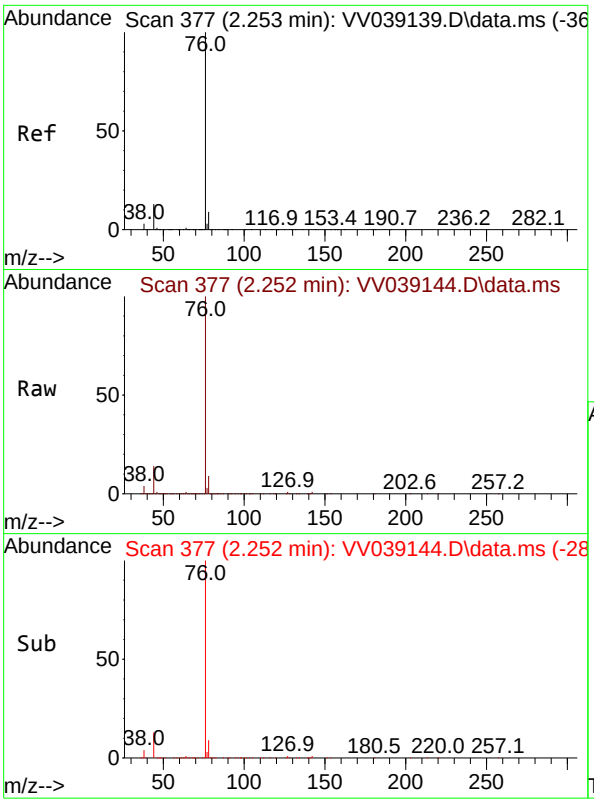


#16
Acetone
Concen: 237.325 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 1131047

Ion	Ratio	Lower	Upper
43	100		
58	31.9	25.8	38.6





#17
Carbon Disulfide
Concen: 45.563 ug/l
RT: 2.252 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

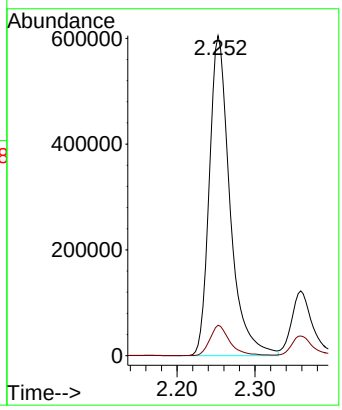
Tgt Ion: 76 Resp: 111493

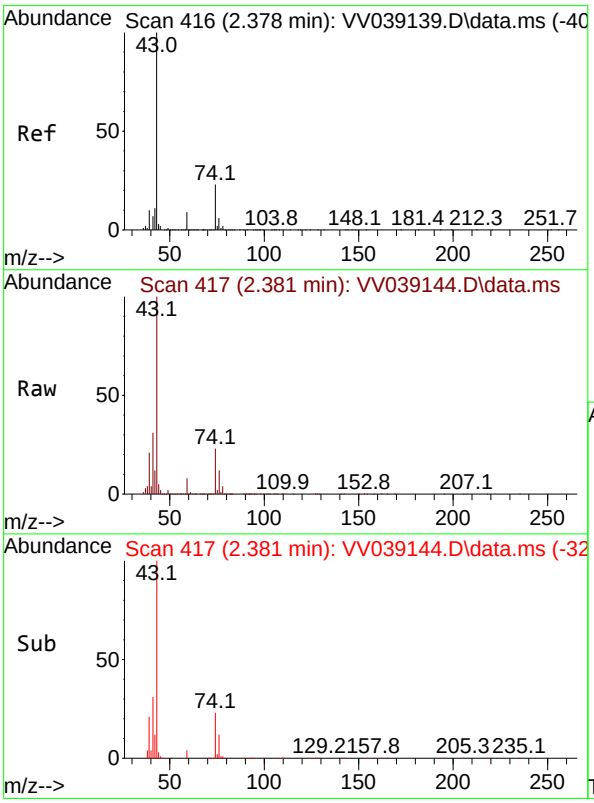
Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.4	11.0

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

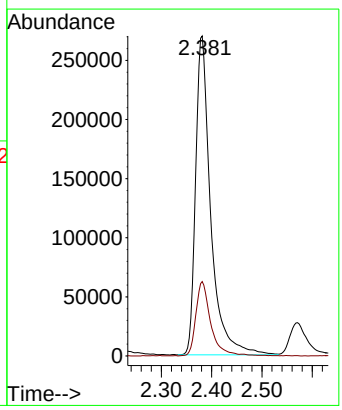


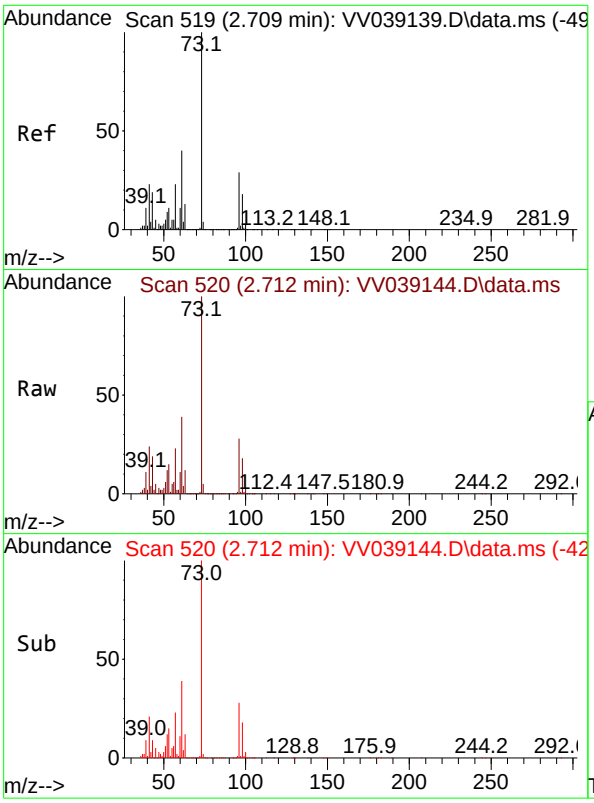


#18
Methyl Acetate
Concen: 49.579 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 564211

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.6	27.8

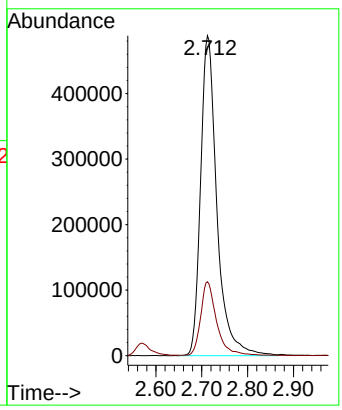




#19
Methyl tert-butyl Ether
Concen: 47.223 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 73 Resp: 120402

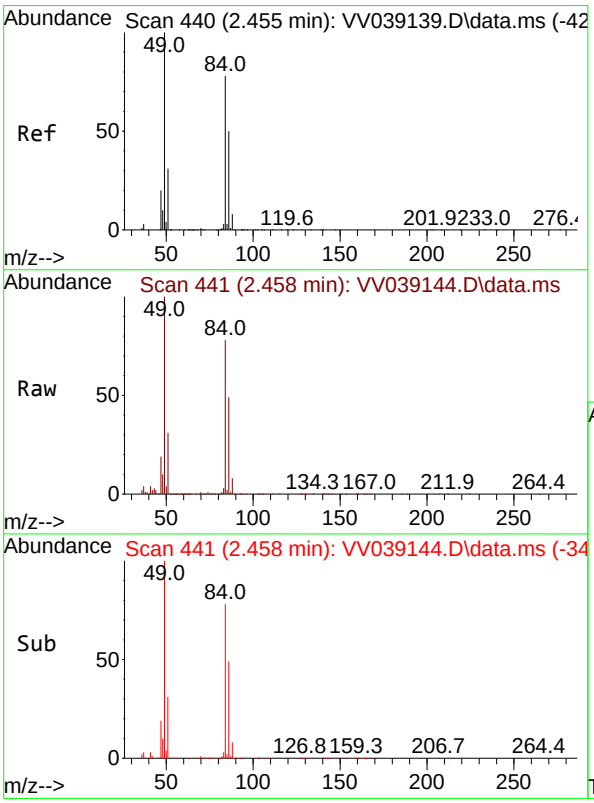
Ion	Ratio	Lower	Upper
73	100		
57	23.0	18.2	27.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

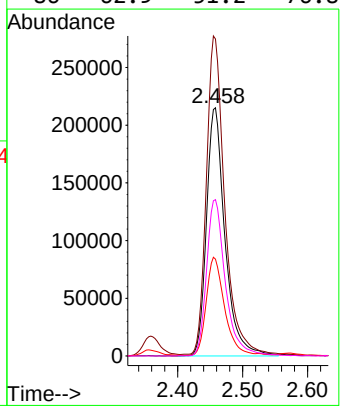
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

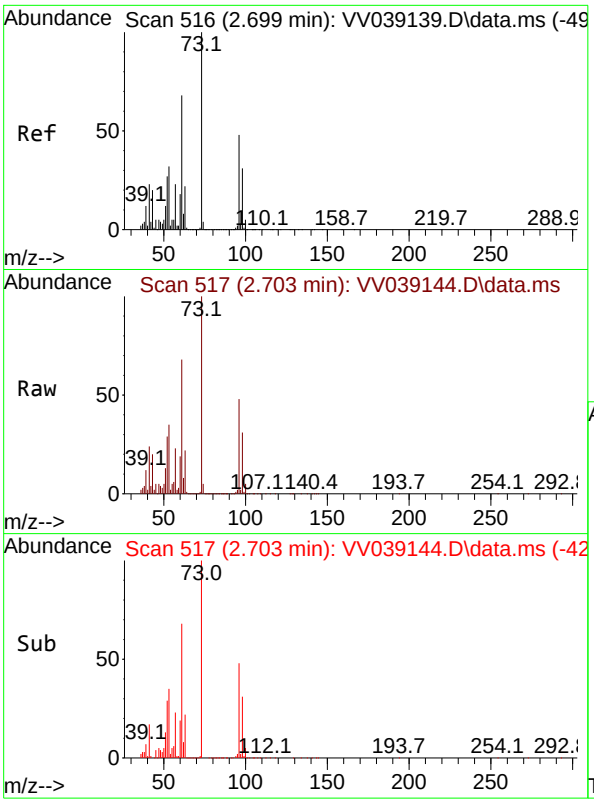


#20
Methylene Chloride
Concen: 51.536 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 84 Resp: 426790

Ion	Ratio	Lower	Upper
84	100		
49	127.1	102.8	154.2
51	38.7	31.9	47.9
86	62.9	51.2	76.8

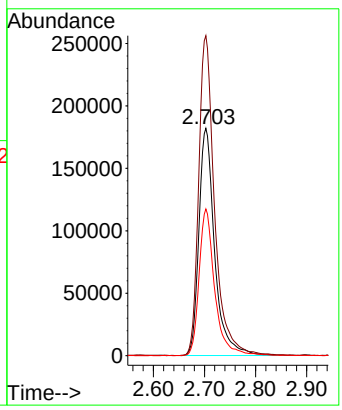




#21
trans-1,2-Dichloroethene
Concen: 45.915 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 39110

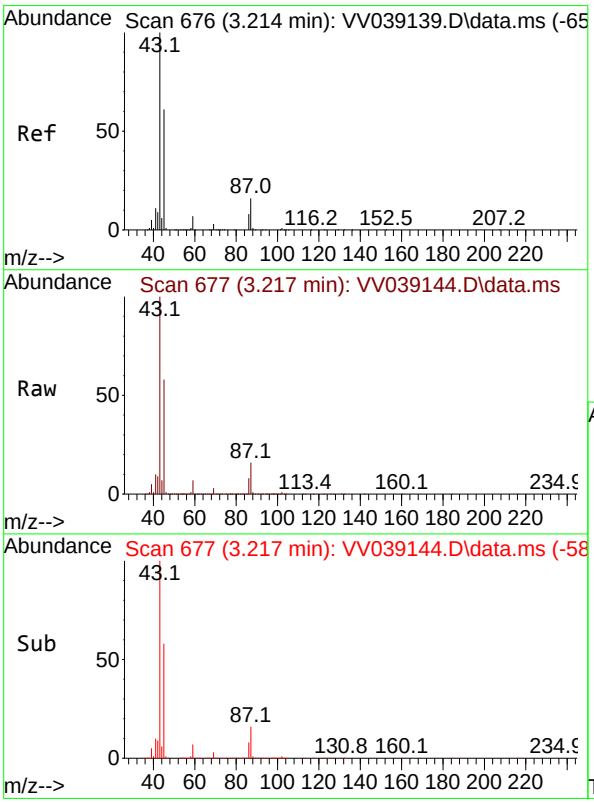
Ion	Ratio	Lower	Upper
96	100		
61	140.9	112.8	169.2
98	64.6	51.1	76.7



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

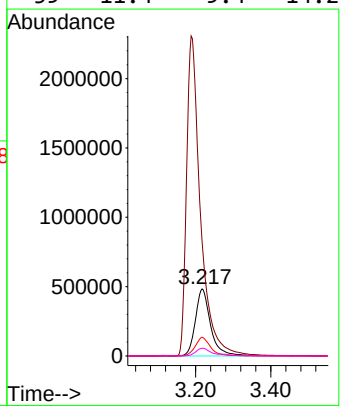
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

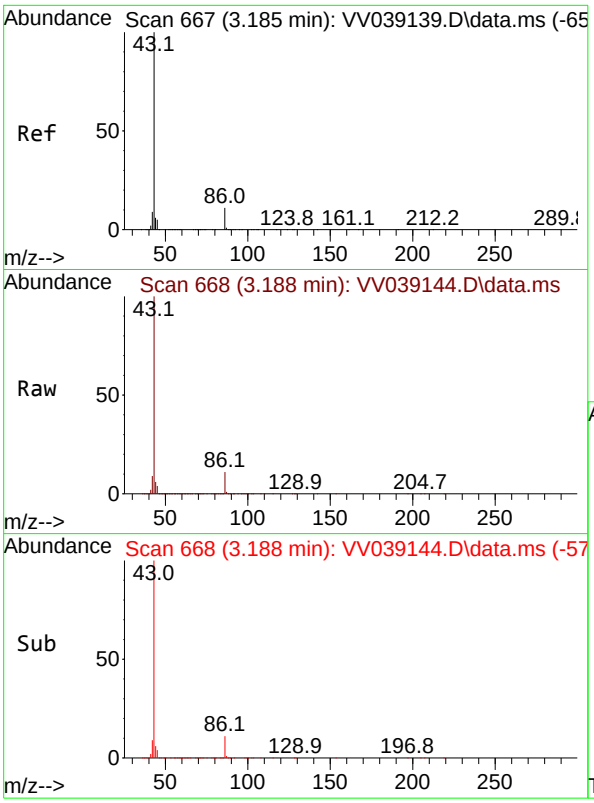


#22
Diisopropyl ether
Concen: 49.556 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 45 Resp: 1355158

Ion	Ratio	Lower	Upper
45	100		
43	170.9	130.9	196.3
87	27.9	21.1	31.7
59	11.4	9.4	14.2





#23
Vinyl Acetate
Concen: 248.597 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

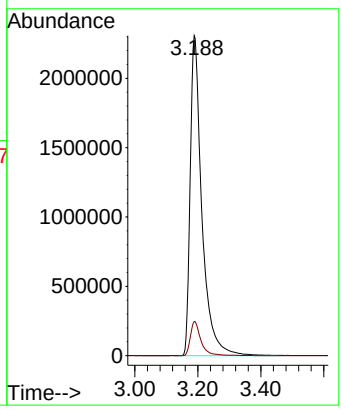
Tgt Ion: 43 Resp: 594689

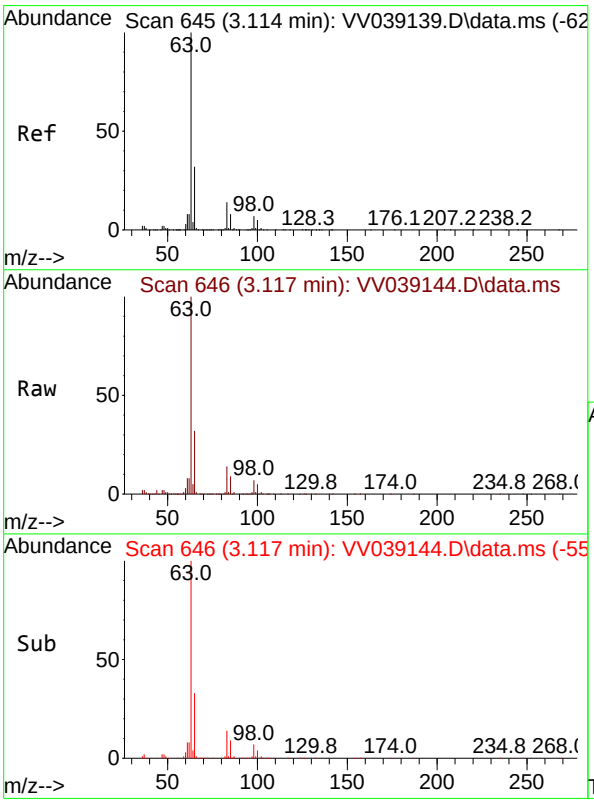
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

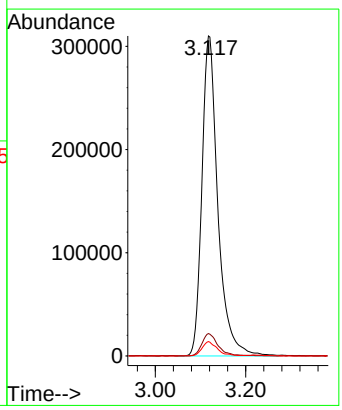


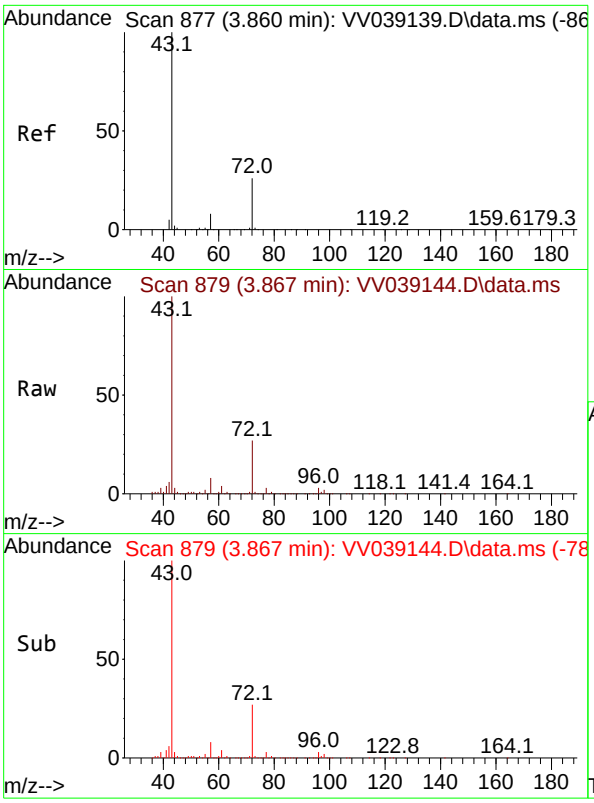


#24
1,1-Dichloroethane
Concen: 45.536 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 761495

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.5	2.2	6.6

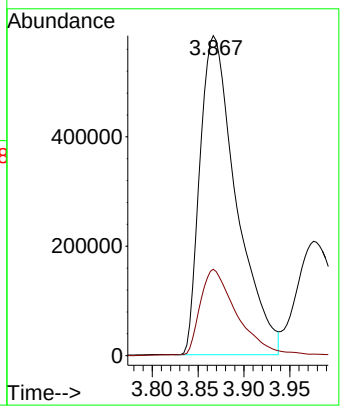




#25
2-Butanone
Concen: 262.050 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 161171

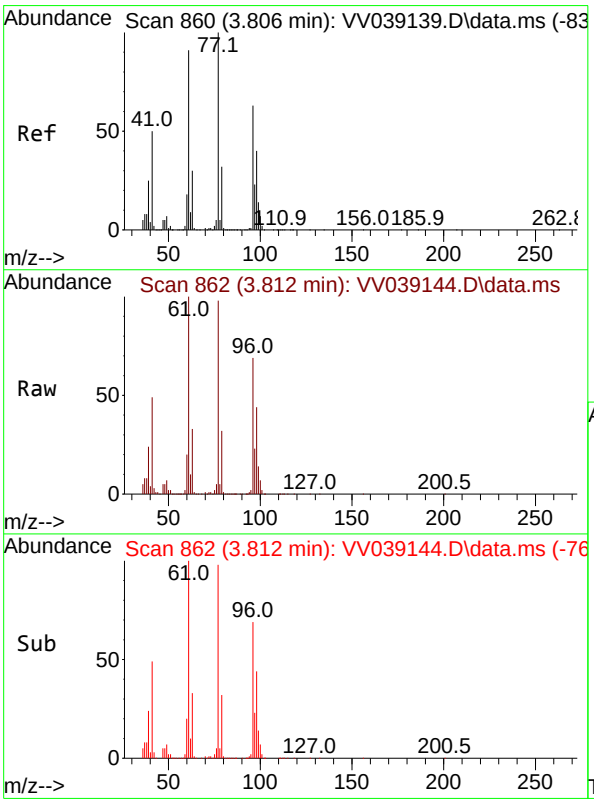
Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.0	31.6



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

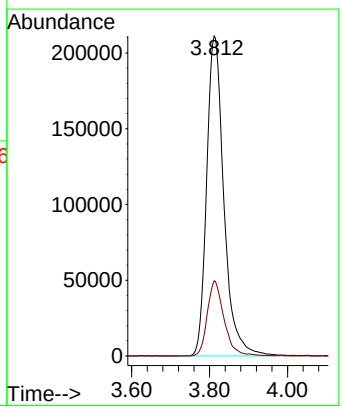
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

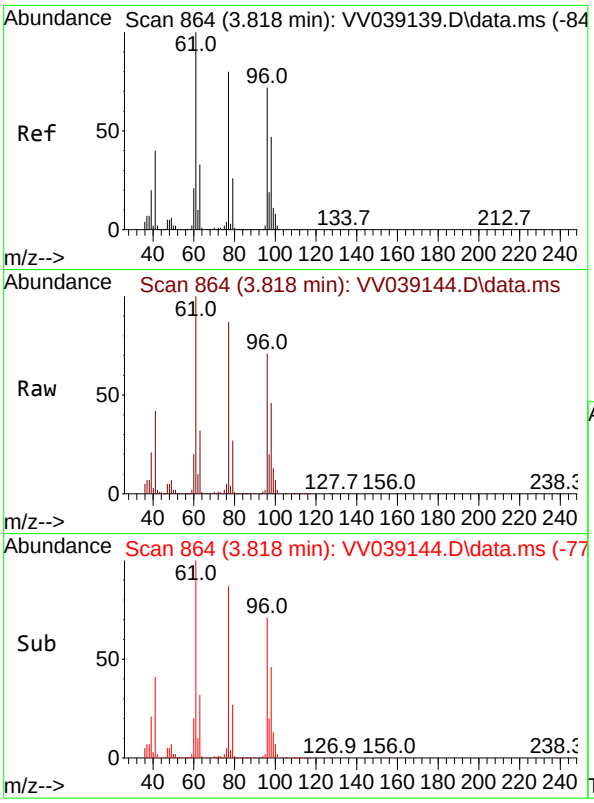


#26
2,2-Dichloropropane
Concen: 43.721 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 77 Resp: 648277

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.6	34.7

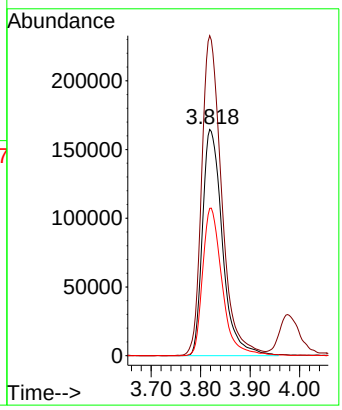




#27
cis-1,2-Dichloroethene
Concen: 48.960 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 45995

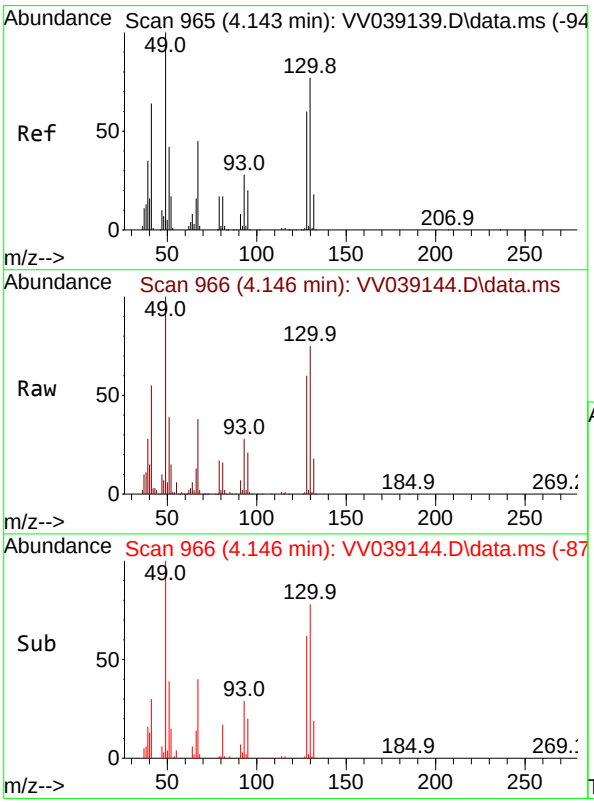
Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	286.4
98	63.9	0.0	126.6



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

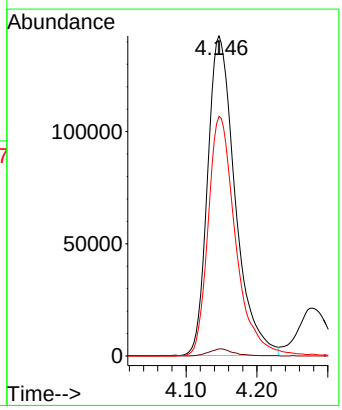
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

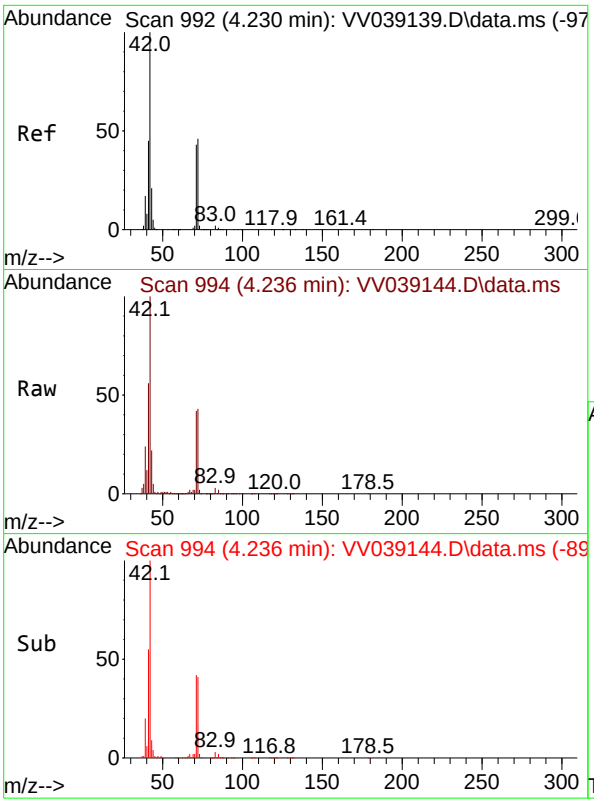


#28
Bromochloromethane
Concen: 52.149 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 49 Resp: 384995

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	74.8	60.2	90.2

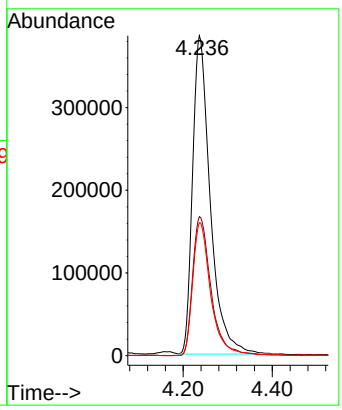




#29
Tetrahydrofuran
Concen: 276.528 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 42 Resp: 106454

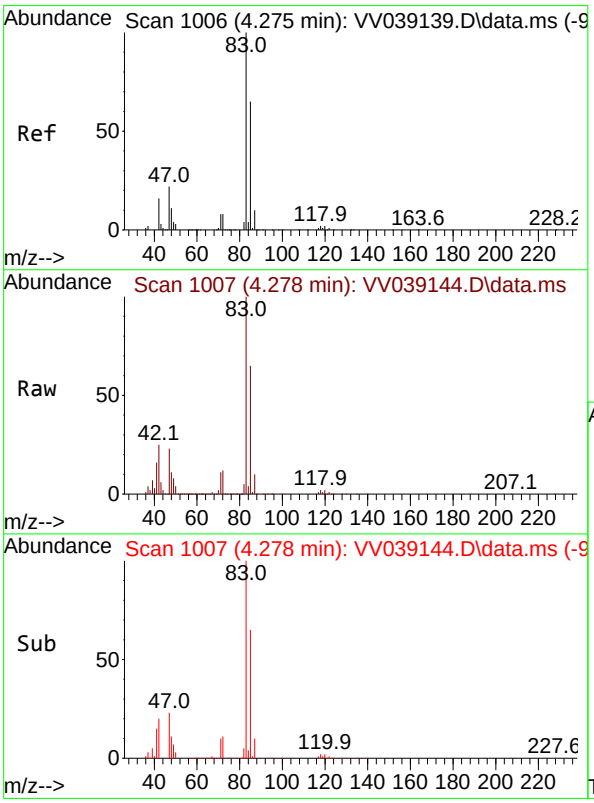
Ion	Ratio	Lower	Upper
42	100		
72	45.2	36.3	54.5
71	42.4	34.3	51.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

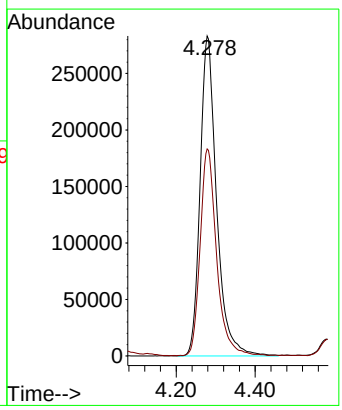
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

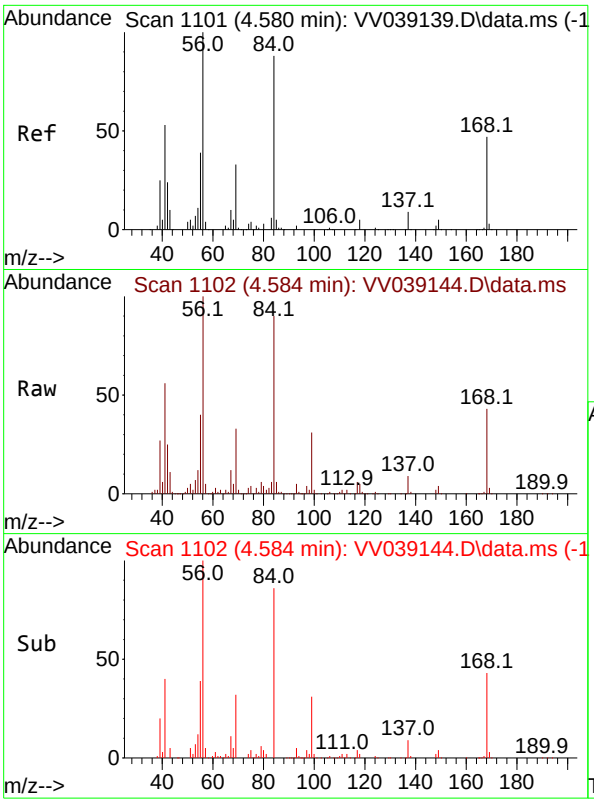


#30
Chloroform
Concen: 46.980 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 820367

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.1	78.1

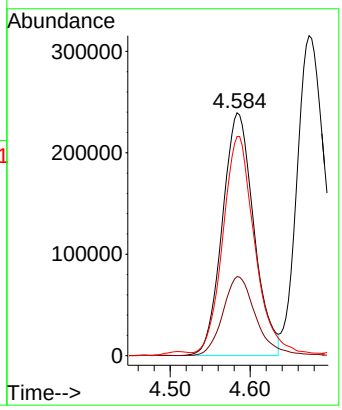




#31
Cyclohexane
Concen: 47.799 ug/l
RT: 4.584 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 56 Resp: 65480

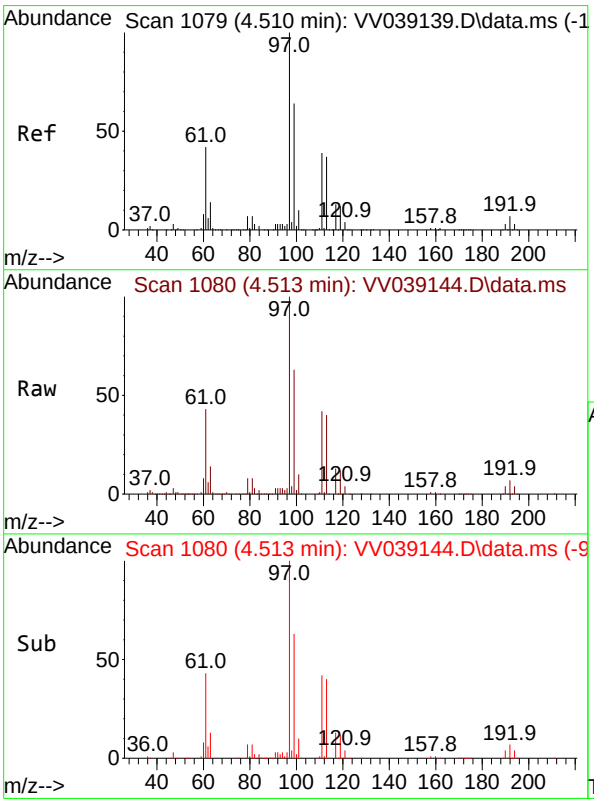
Ion	Ratio	Lower	Upper
56	100		
69	32.5	26.2	39.2
84	88.6	70.3	105.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

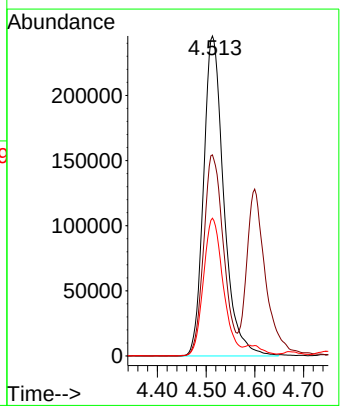
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

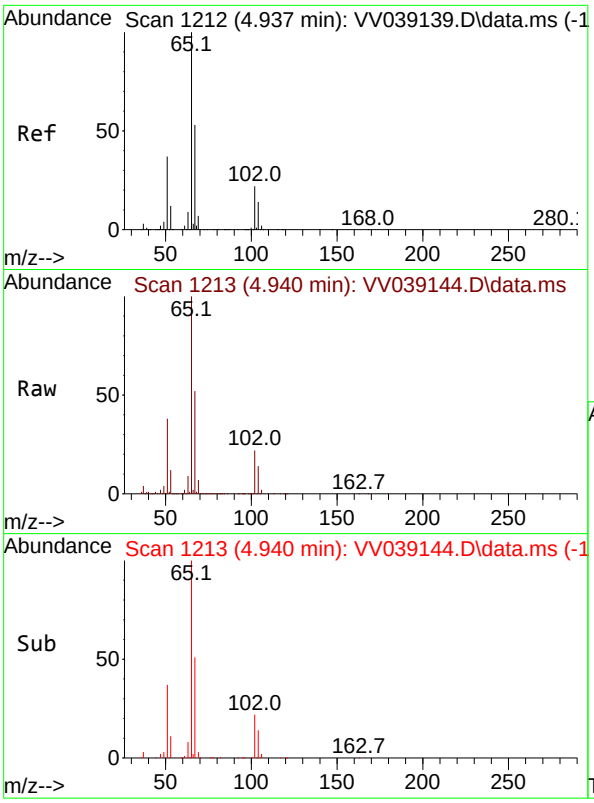


#32
1,1,1-Trichloroethane
Concen: 46.922 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 97 Resp: 709351

Ion	Ratio	Lower	Upper
97	100		
99	61.4	49.6	74.4
61	42.0	34.5	51.7

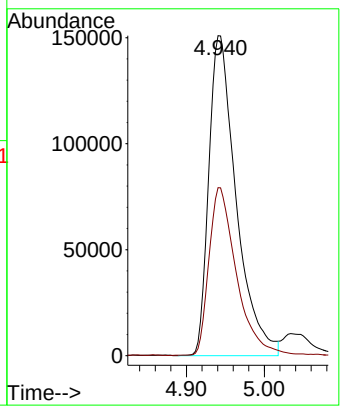




#33
1,2-Dichloroethane-d4
Concen: 48.041 ug/l
RT: 4.940 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 65 Resp: 36898

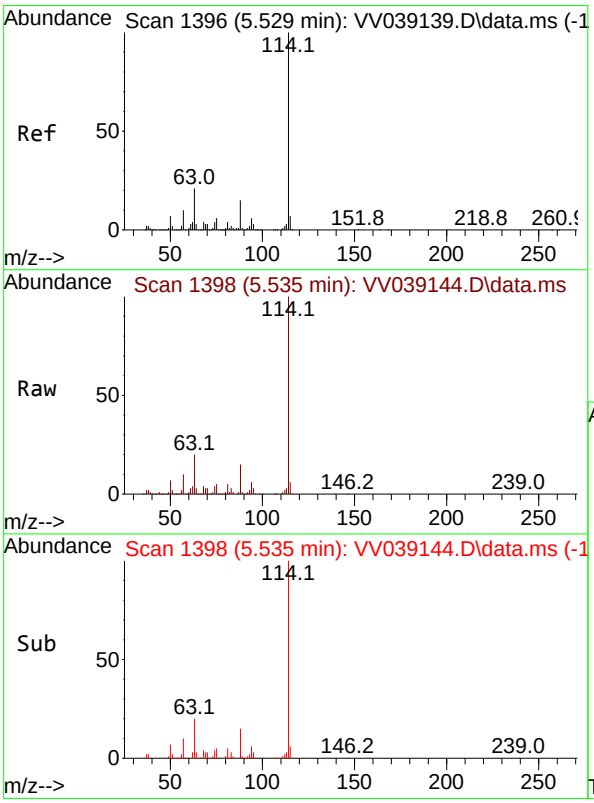
Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	107.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

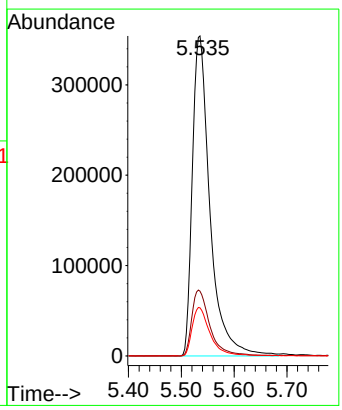
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

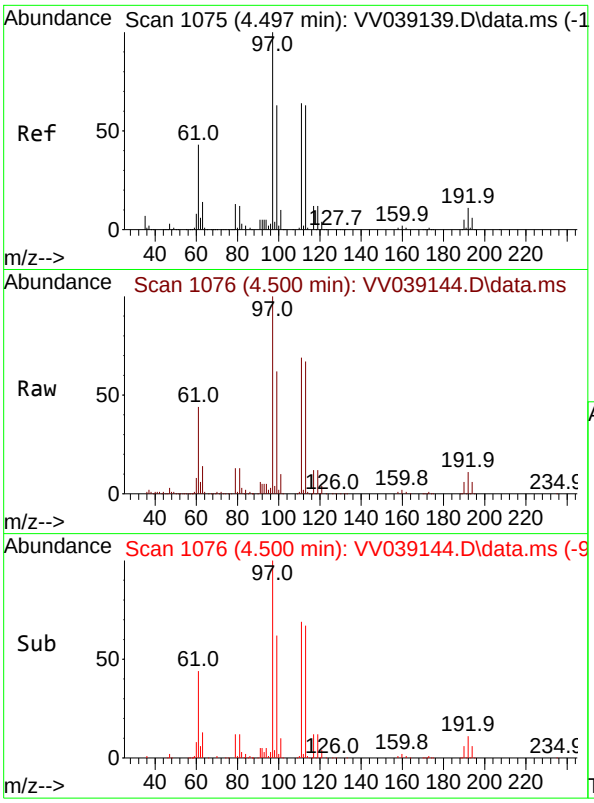


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:114 Resp: 821122

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.1	0.0	30.8

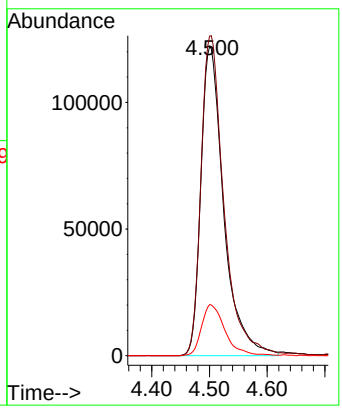




#35
Dibromofluoromethane
Concen: 50.832 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:113 Resp: 33554

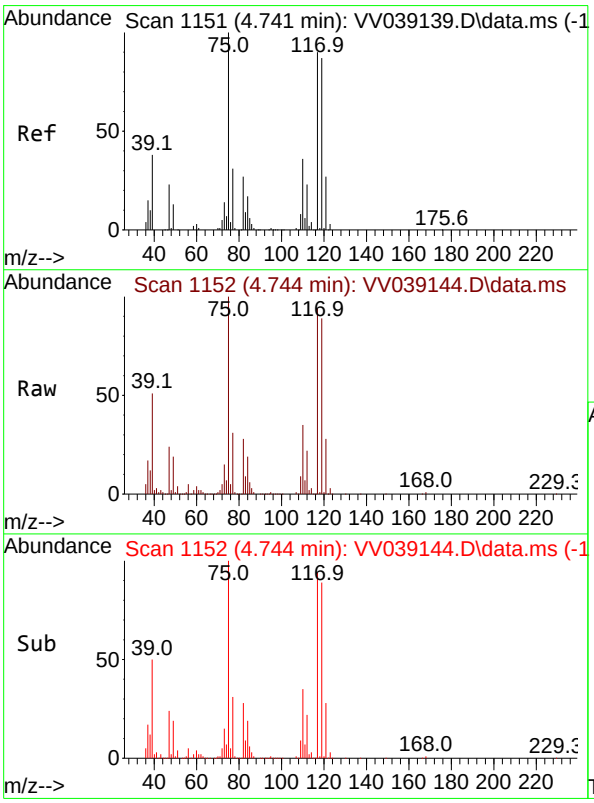
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	16.8	13.8	20.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

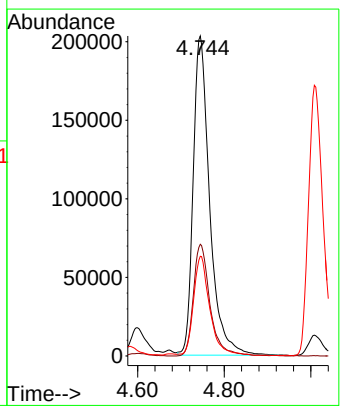
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

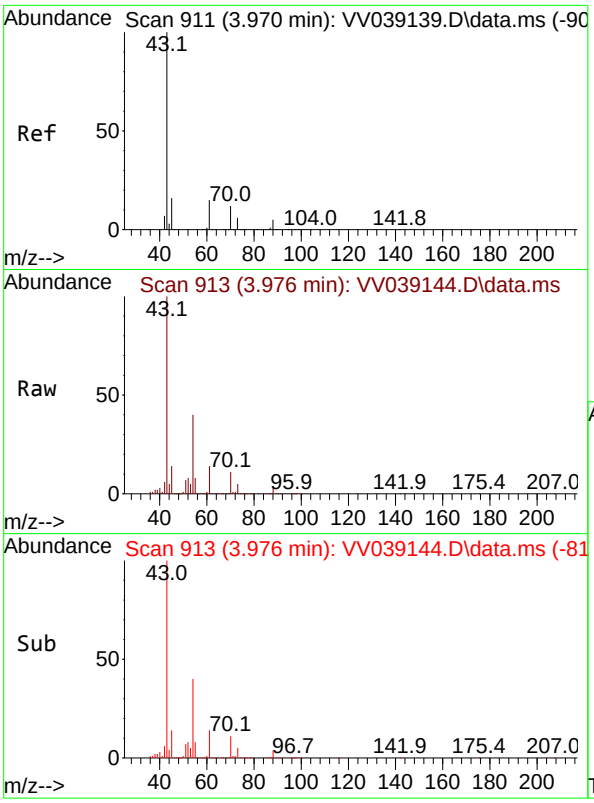


#36
1,1-Dichloropropene
Concen: 53.809 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 537027

Ion	Ratio	Lower	Upper
75	100		
110	35.3	18.1	54.1
77	30.4	24.8	37.2





#37
Ethyl Acetate
Concen: 52.050 ug/l
RT: 3.976 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

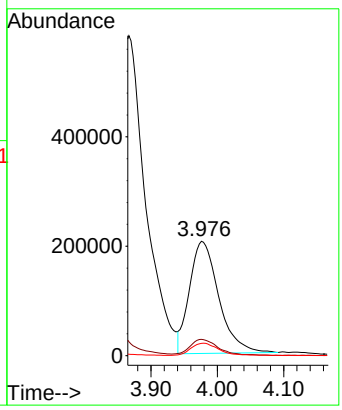
Tgt Ion: 43 Resp: 63034

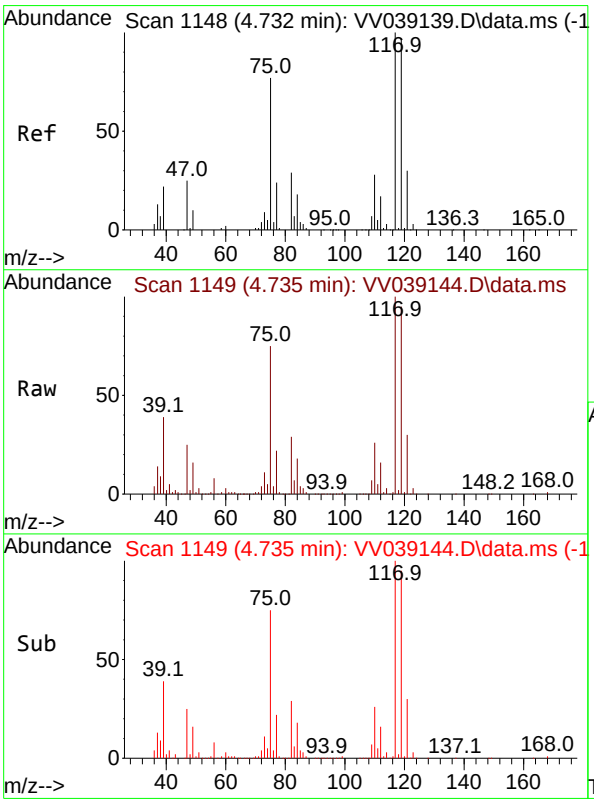
Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.3	15.5
70	10.3	8.0	12.0

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

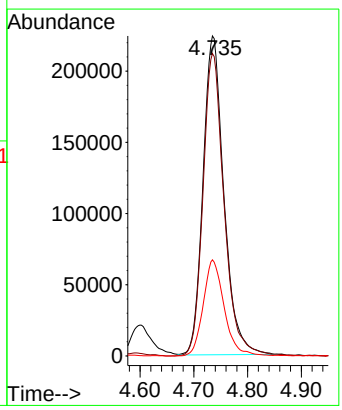


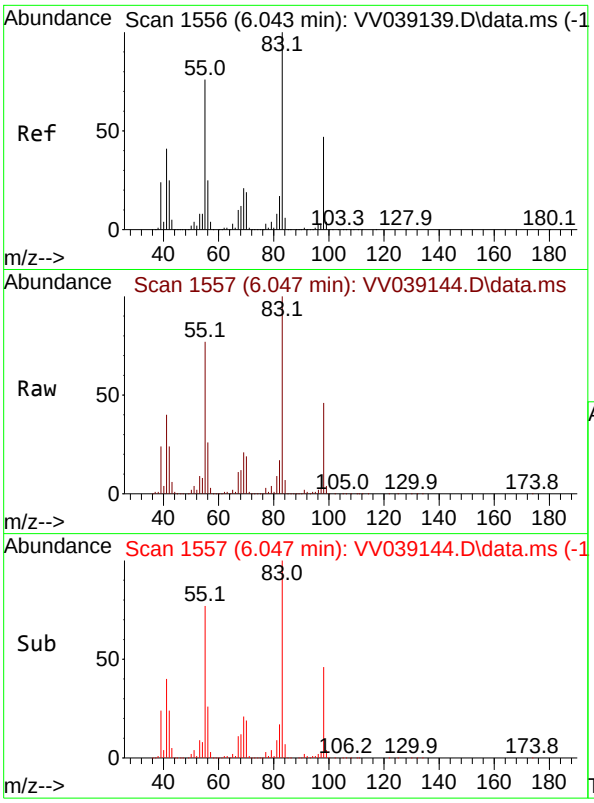


#38
Carbon Tetrachloride
Concen: 49.452 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:117 Resp: 603187

Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.2	115.8
121	30.1	24.2	36.2





#39
Methylcyclohexane
Concen: 57.426 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

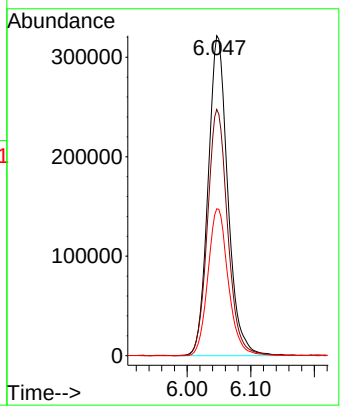
Tgt Ion: 83 Resp: 69213

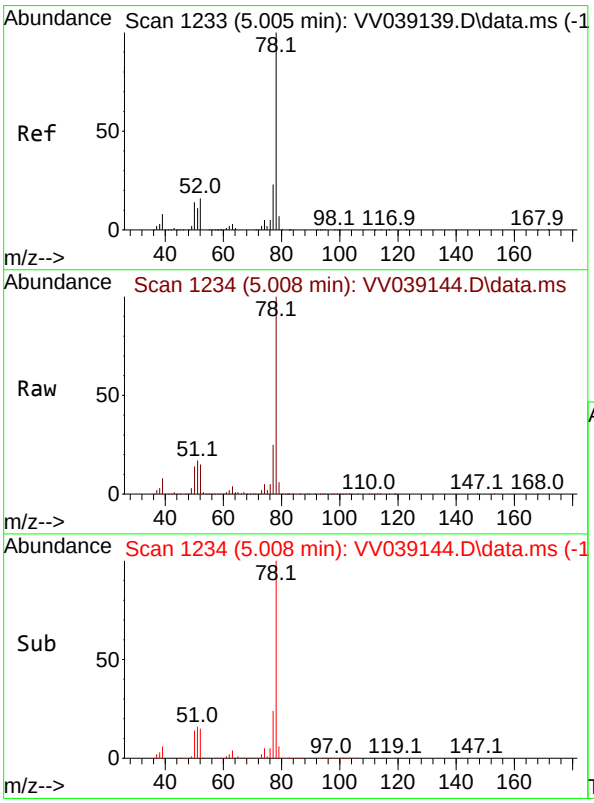
Ion	Ratio	Lower	Upper
83	100		
55	76.9	60.5	90.7
98	45.9	37.8	56.6

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

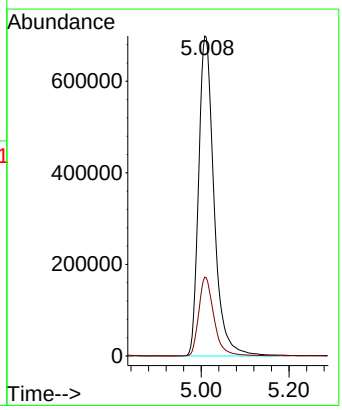


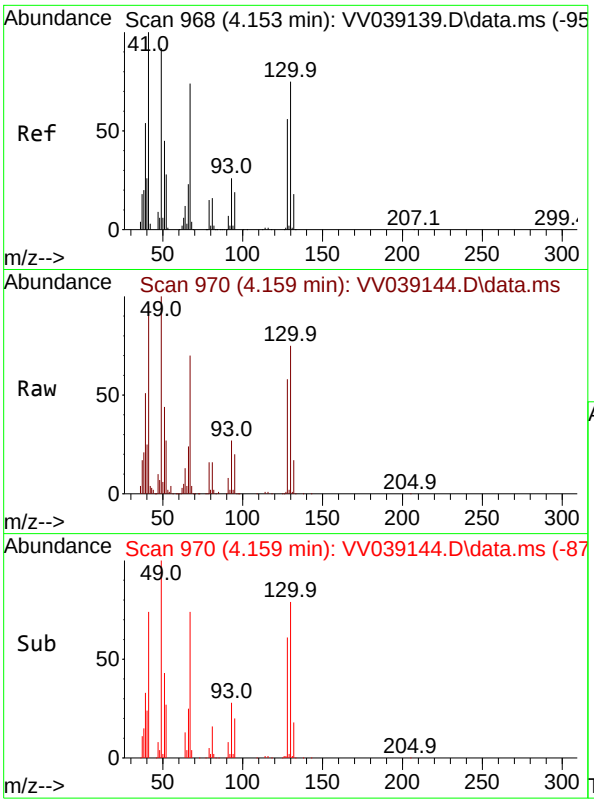


#40
Benzene
Concen: 52.293 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 78 Resp: 1699505

Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.7	28.1

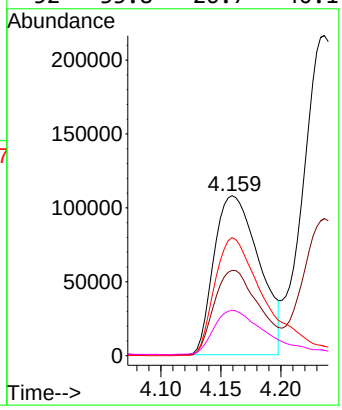




#41
Methacrylonitrile
Concen: 51.602 ug/l
RT: 4.159 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 28289

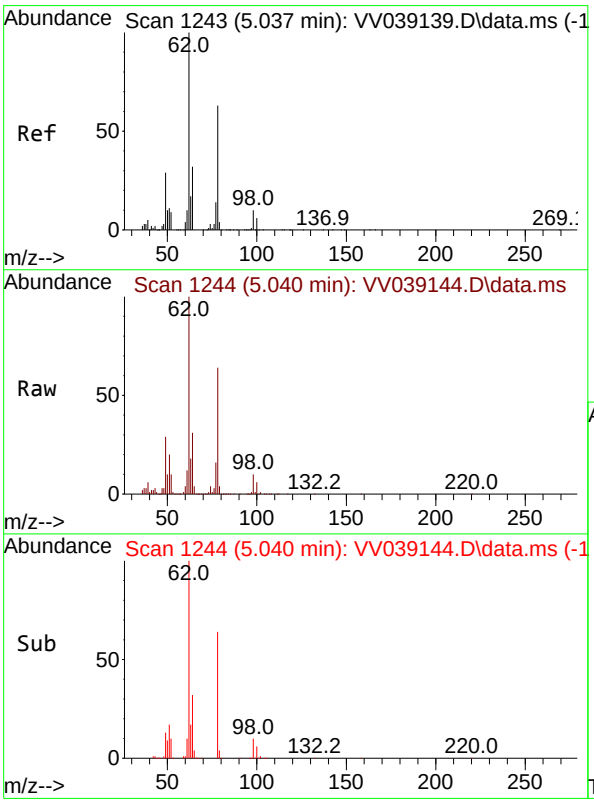
Ion	Ratio	Lower	Upper
41	100		
39	53.6	42.2	63.2
67	86.4	67.9	101.9
52	33.8	26.7	40.1



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

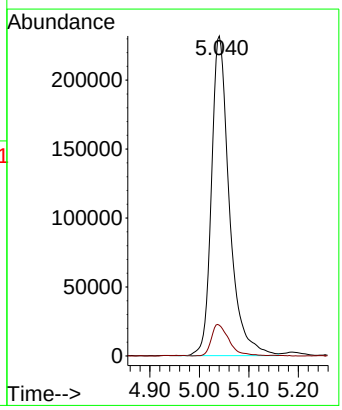
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

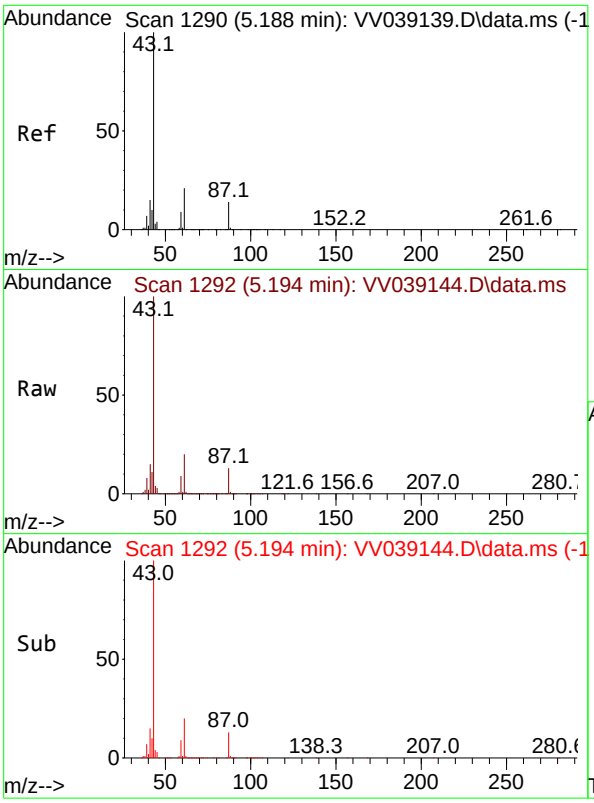


#42
1,2-Dichloroethane
Concen: 51.245 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 62 Resp: 583550

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.2

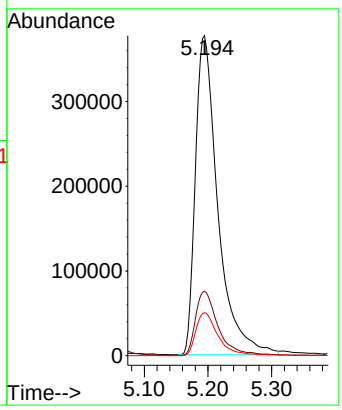




#43
Isopropyl Acetate
Concen: 55.998 ug/l
RT: 5.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 92465

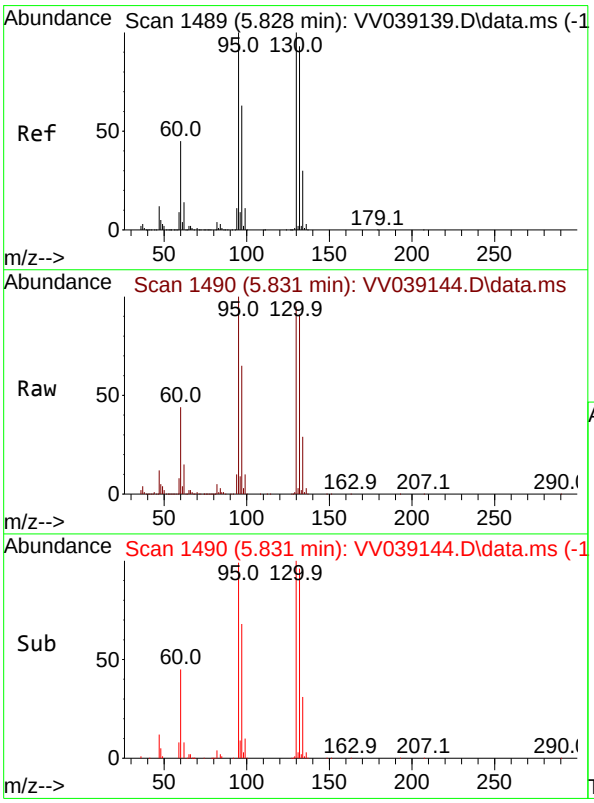
Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.9	23.9
87	13.2	11.0	16.6



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

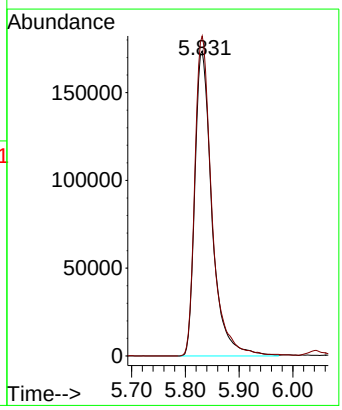
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

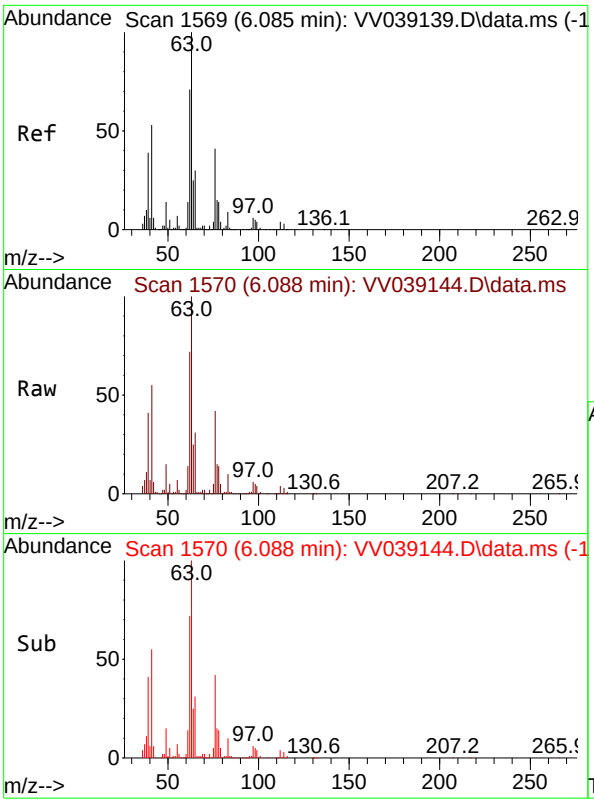


#44
Trichloroethene
Concen: 51.216 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:130 Resp: 384092

Ion	Ratio	Lower	Upper
130	100		
95	104.9	0.0	199.2

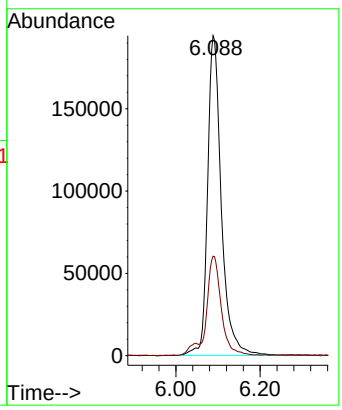




#45
1,2-Dichloropropane
Concen: 54.495 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 44021

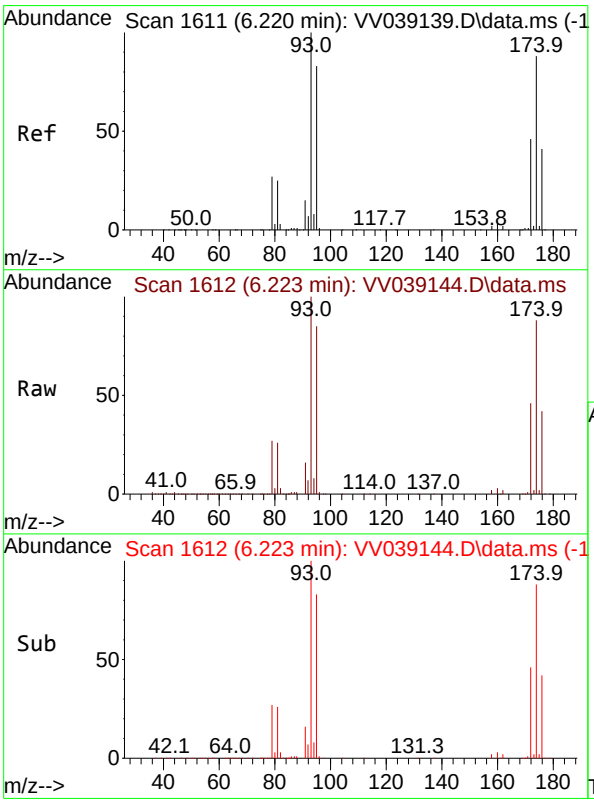
Ion	Ratio	Lower	Upper
63	100		
65	31.0	23.7	35.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

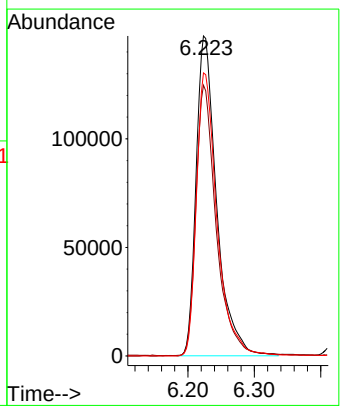
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

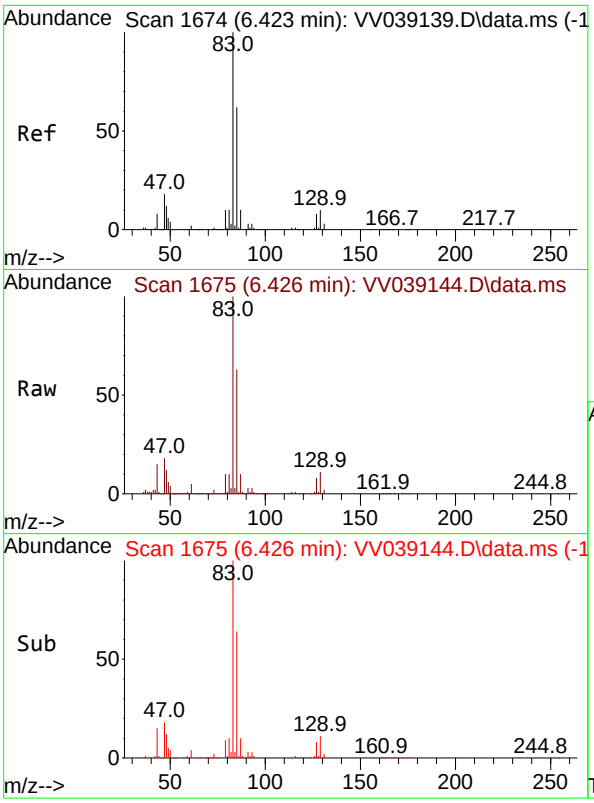


#46
Dibromomethane
Concen: 51.116 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 93 Resp: 316032

Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.5	98.3
174	89.0	69.0	103.4

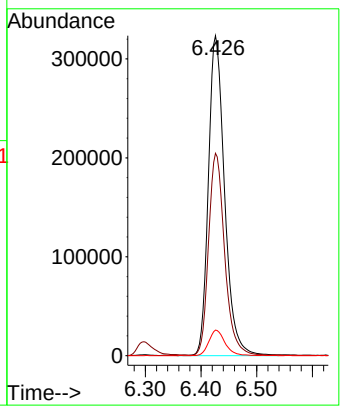




#47
Bromodichloromethane
Concen: 51.232 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 65483

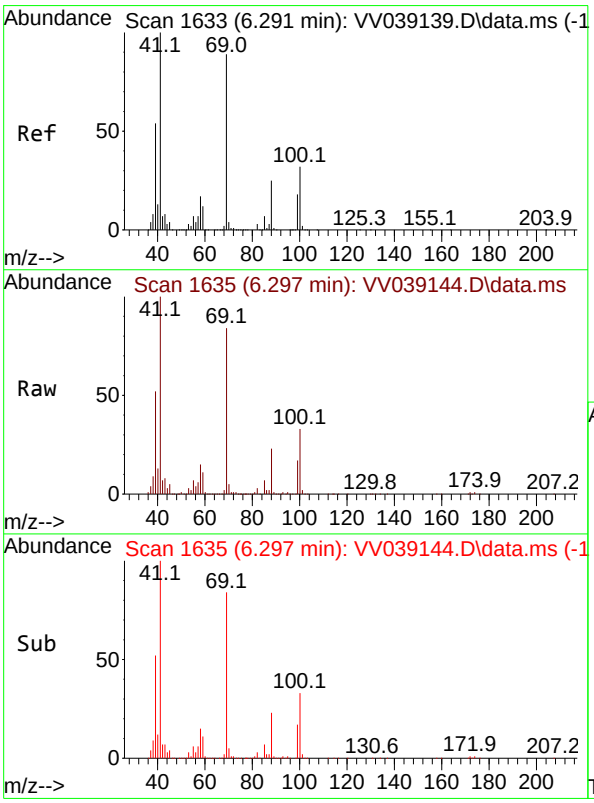
Ion	Ratio	Lower	Upper
83	100		
85	63.0	49.7	74.5
127	8.0	6.6	9.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

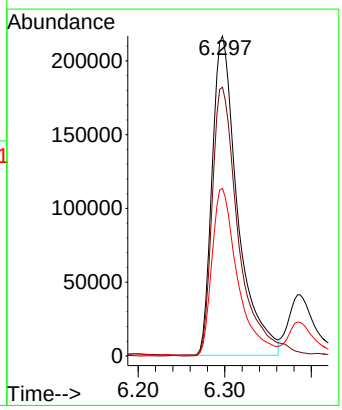
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

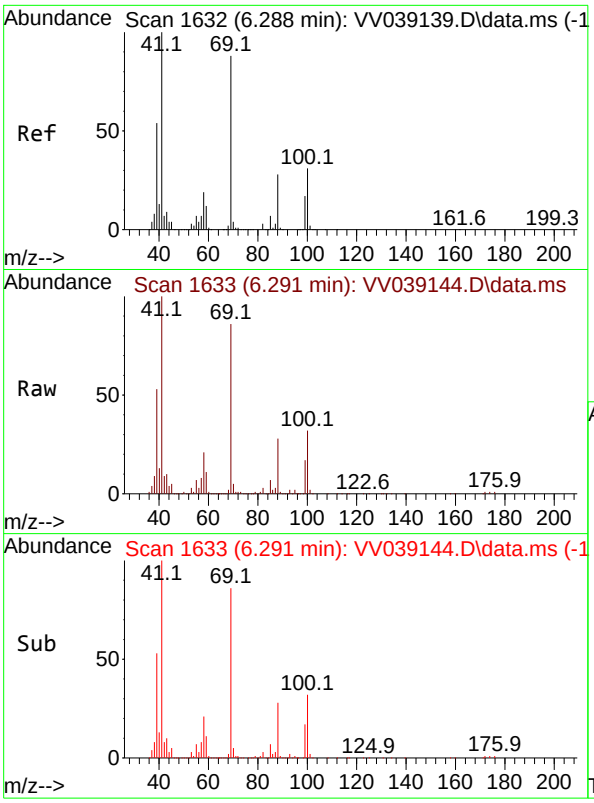


#48
Methyl methacrylate
Concen: 59.104 ug/l
RT: 6.297 min Scan# 1635
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 442395

Ion	Ratio	Lower	Upper
41	100		
69	87.4	72.4	108.6
39	52.6	42.5	63.7





#49
1,4-Dioxane
Concen: 1133.346 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

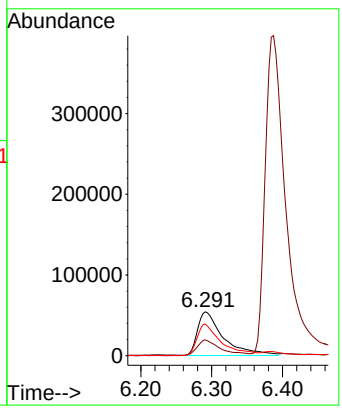
Tgt Ion: 88 Resp: 136899

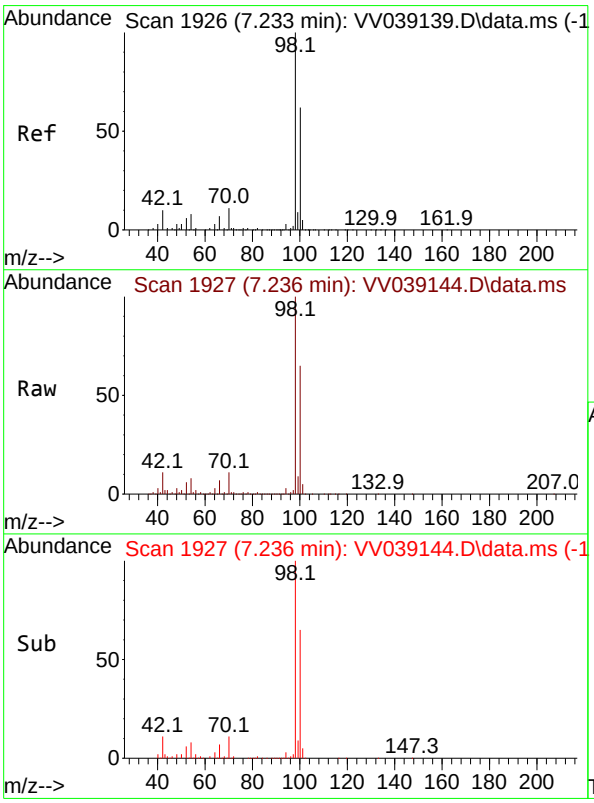
Ion	Ratio	Lower	Upper
88	100		
43	31.1	25.1	37.7
58	67.8	53.6	80.4

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

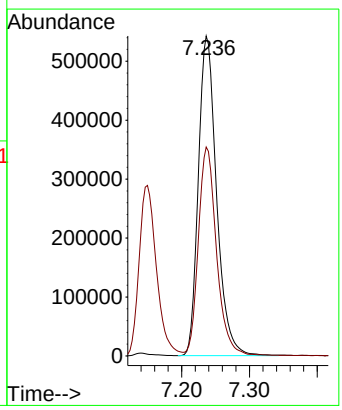


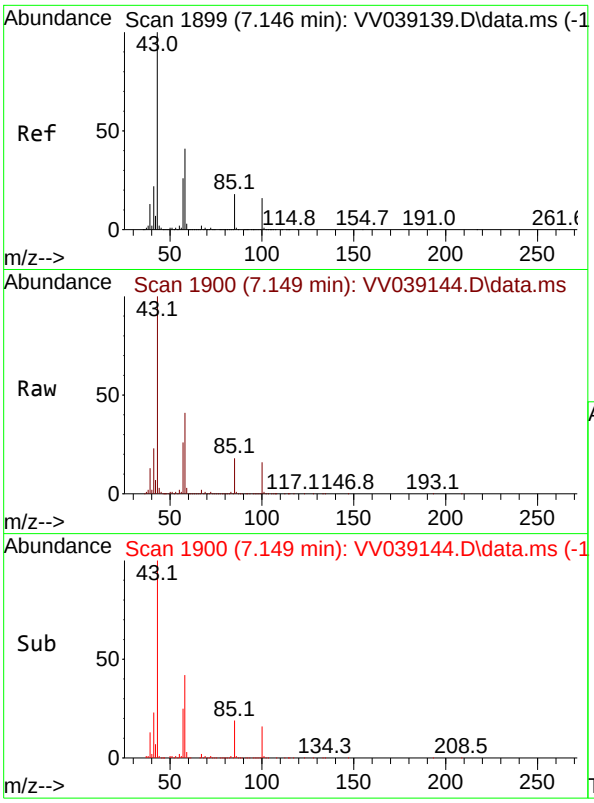


#50
Toluene-d8
Concen: 52.199 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 98 Resp: 1012009

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

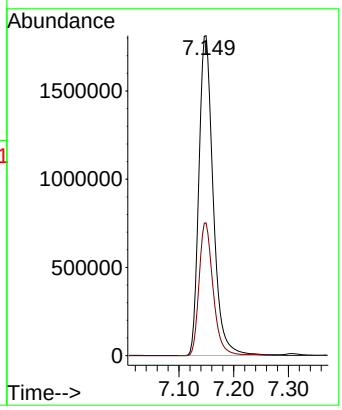




#51
4-Methyl-2-Pentanone
Concen: 303.119 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 329279

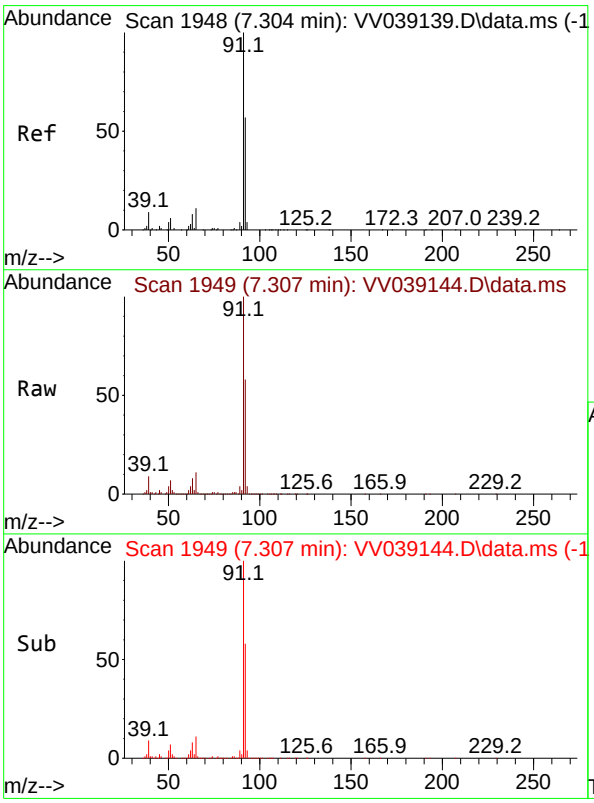
Ion	Ratio	Lower	Upper
43	100		
58	40.6	32.3	48.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

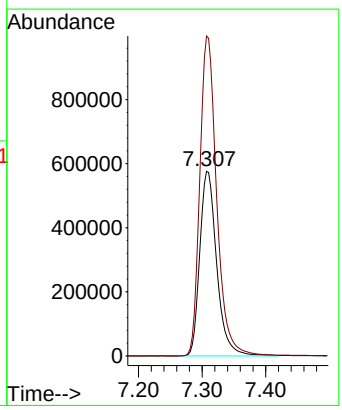
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

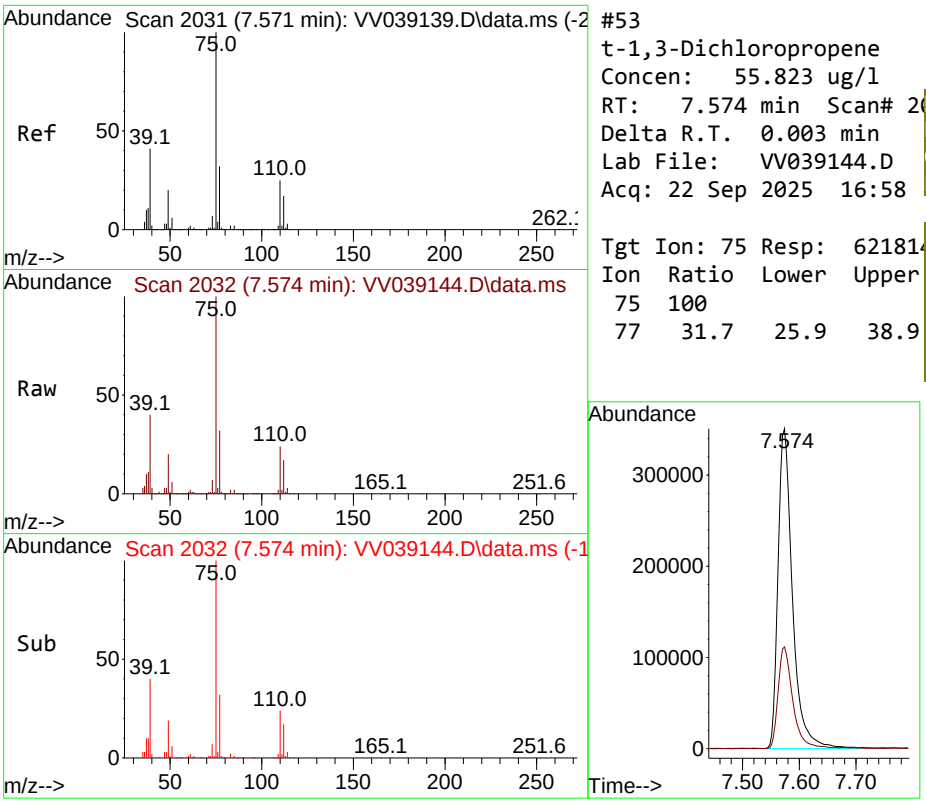


#52
Toluene
Concen: 56.517 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 92 Resp: 1064972

Ion	Ratio	Lower	Upper
92	100		
91	173.0	139.2	208.8





#53
t-1,3-Dichloropropene
Concen: 55.823 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

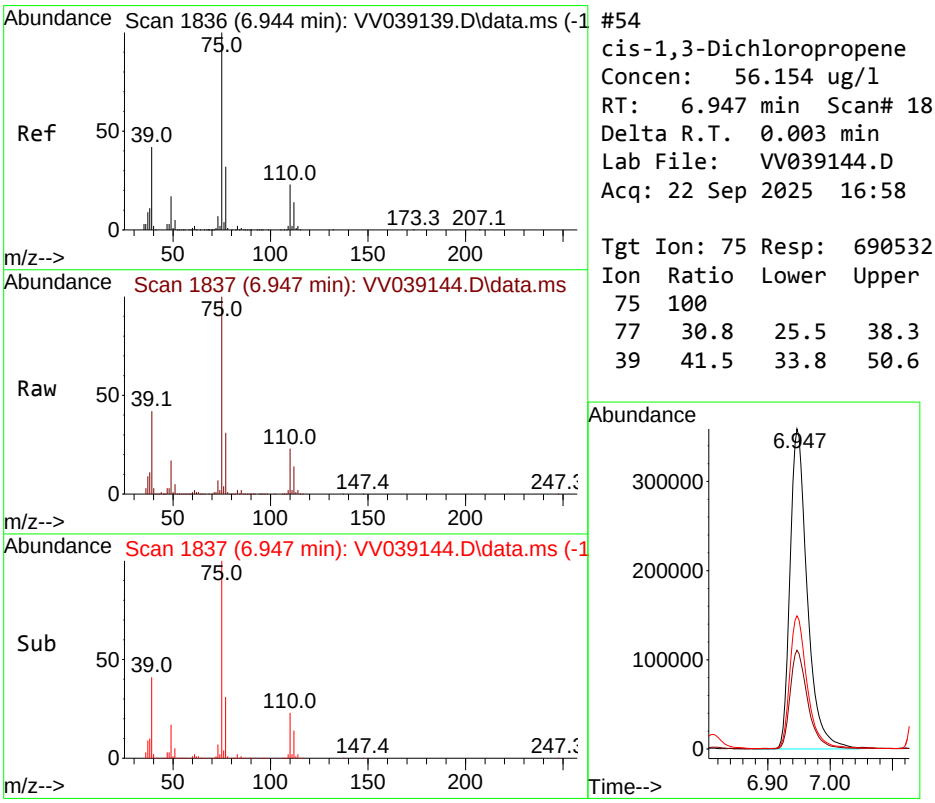
Tgt Ion: 75 Resp: 62181

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.9	38.9

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

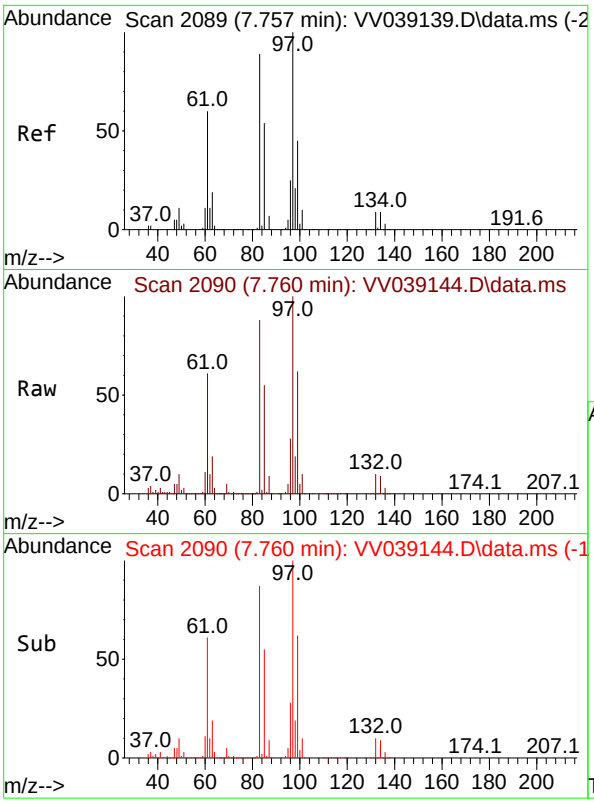
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#54
cis-1,3-Dichloropropene
Concen: 56.154 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 690532

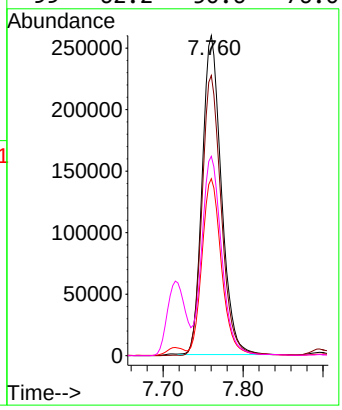
Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.5	38.3
39	41.5	33.8	50.6



#55
1,1,2-Trichloroethane
Concen: 51.231 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 97 Resp: 43285

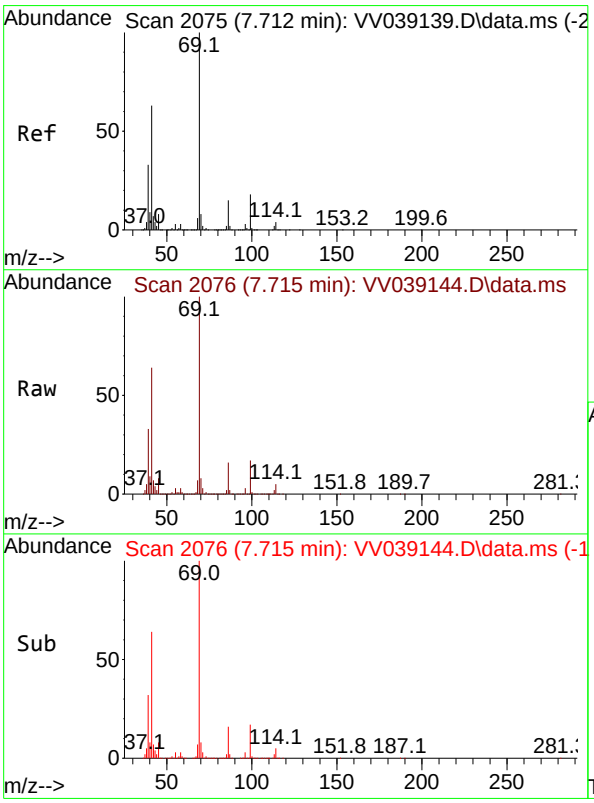
Ion	Ratio	Lower	Upper
97	100		
83	87.7	71.1	106.7
85	55.2	44.6	67.0
99	62.2	50.6	76.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

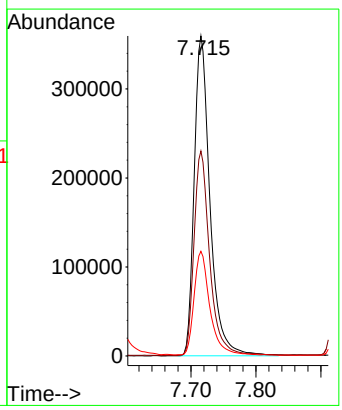
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

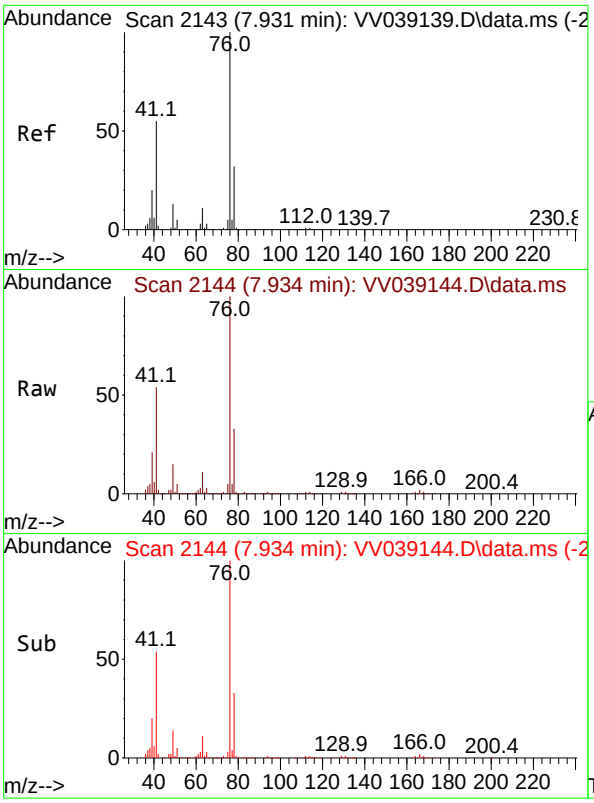


#56
Ethyl methacrylate
Concen: 60.810 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 69 Resp: 610159

Ion	Ratio	Lower	Upper
69	100		
41	62.8	50.7	76.1
39	32.0	26.0	39.0

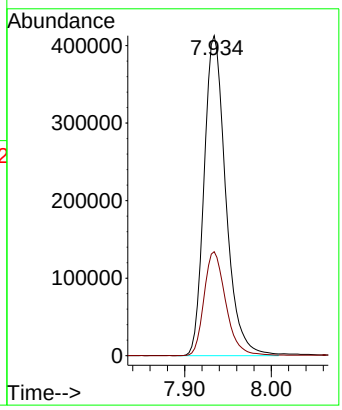




#57
1,3-Dichloropropane
Concen: 53.769 ug/l
RT: 7.934 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 76 Resp: 71695

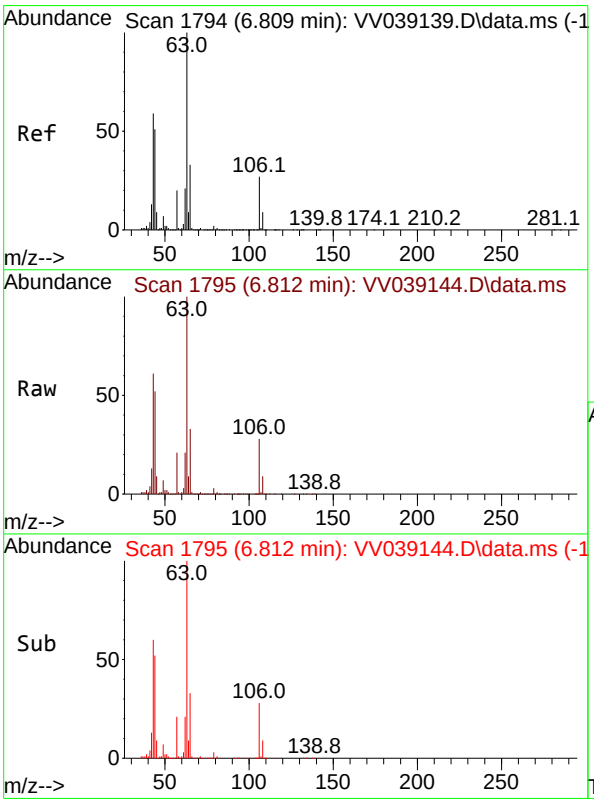
Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.1	39.1



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

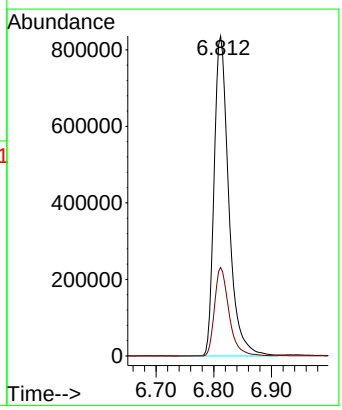
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

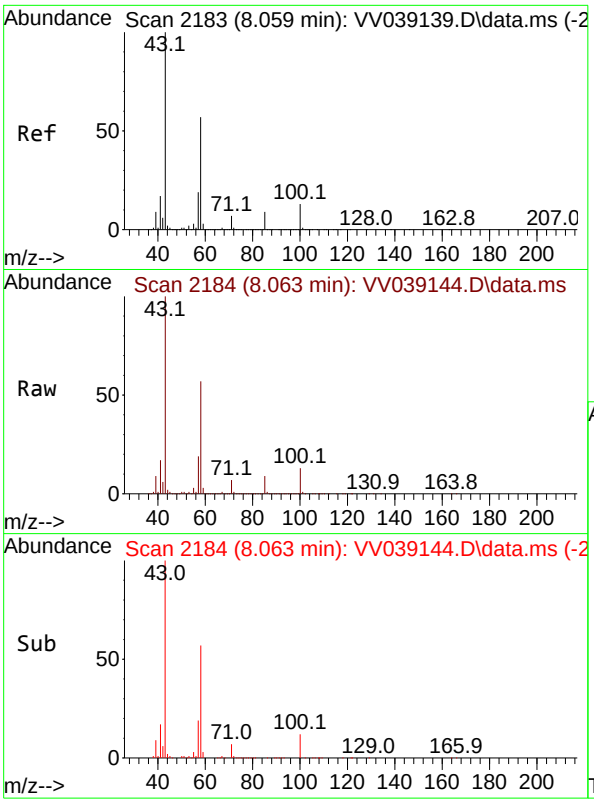


#58
2-Chloroethyl Vinyl ether
Concen: 259.936 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 1474938

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.1	33.1

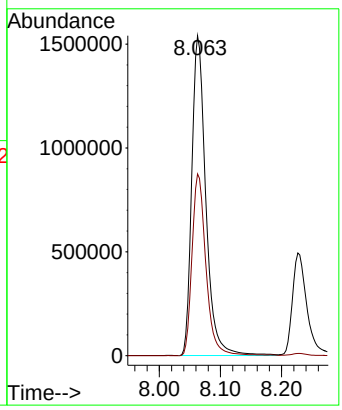




#59
2-Hexanone
Concen: 280.545 ug/l
RT: 8.063 min Scan# 2
Delta R.T. 0.004 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 246249

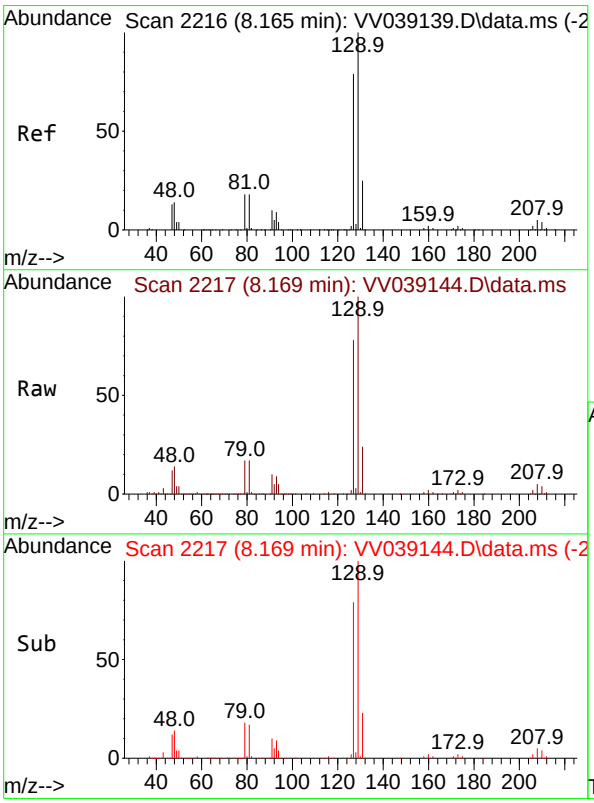
Ion	Ratio	Lower	Upper
43	100		
58	56.4	28.3	85.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

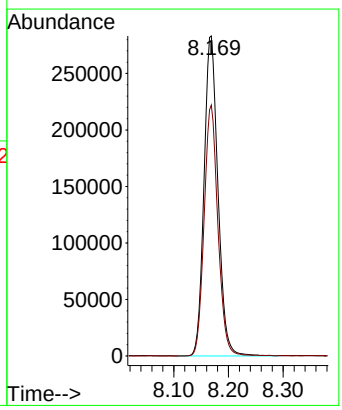
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

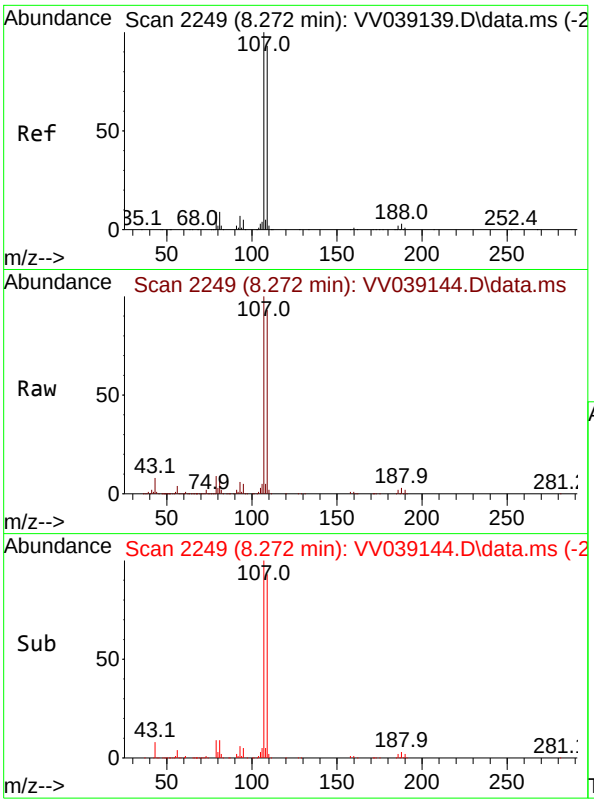


#60
Dibromochloromethane
Concen: 51.926 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:129 Resp: 499908

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.9

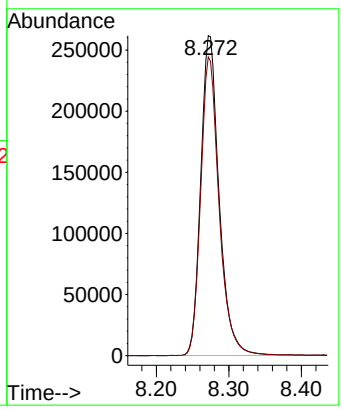




#61
1,2-Dibromoethane
Concen: 53.295 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:107 Resp: 46051

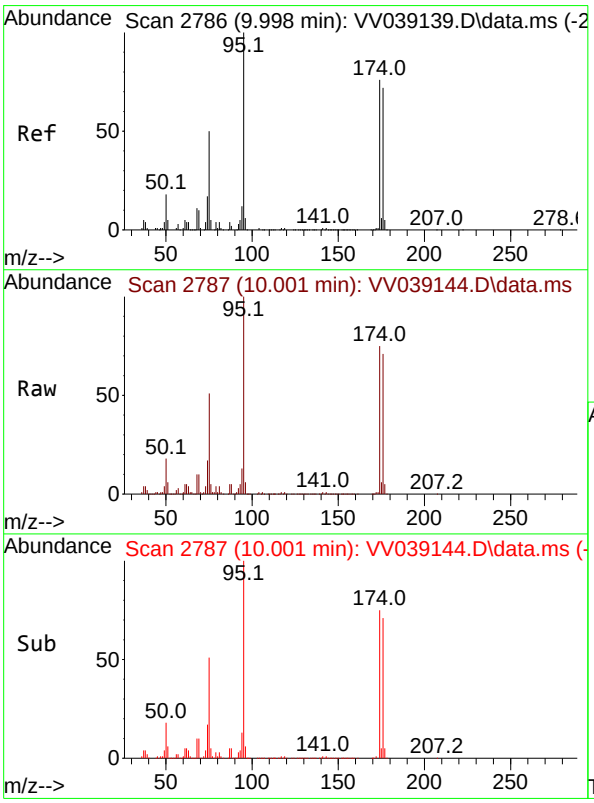
Ion	Ratio	Lower	Upper
107	100		
109	93.6	74.6	112.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

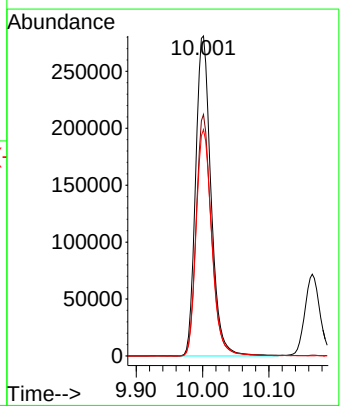
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

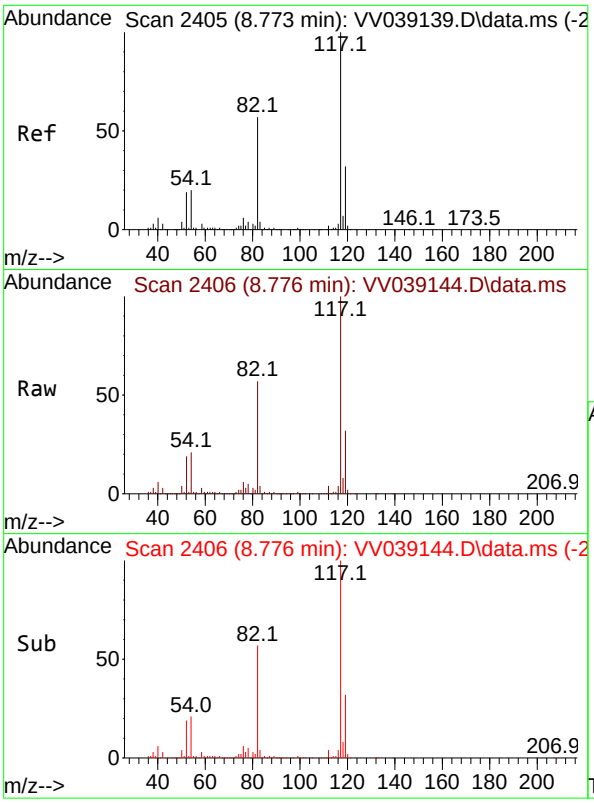


#62
4-Bromofluorobenzene
Concen: 56.823 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 95 Resp: 453523

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	150.4
176	71.8	0.0	144.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

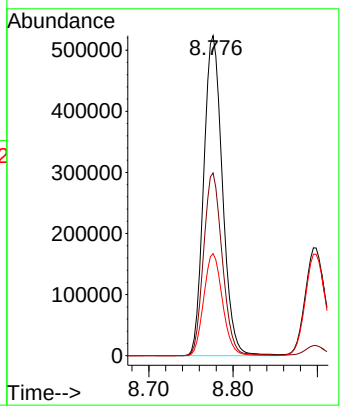
Tgt Ion:117 Resp: 81135

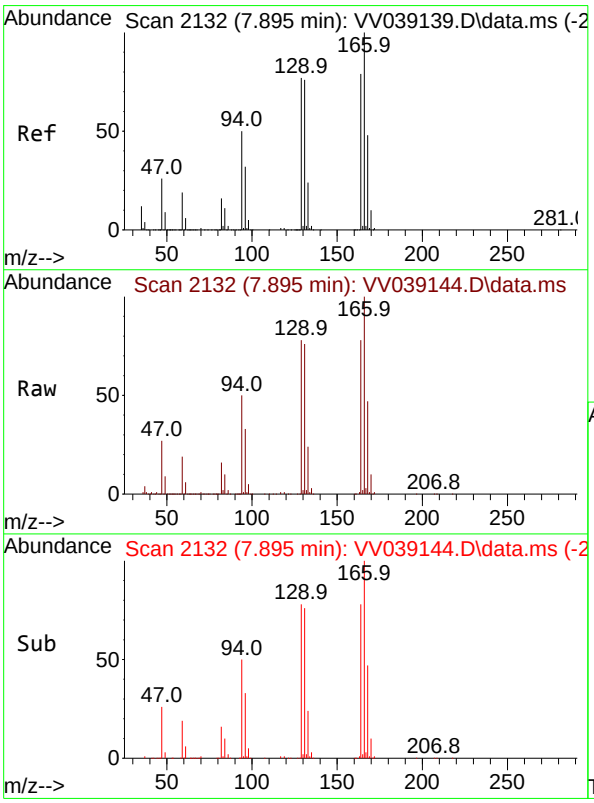
Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.4	68.2
119	31.9	25.6	38.4

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

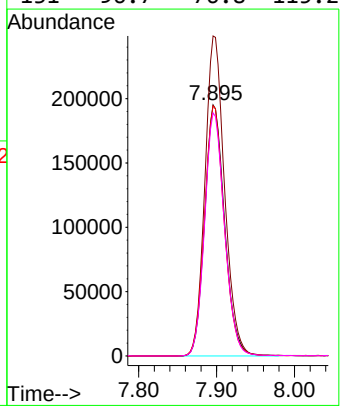


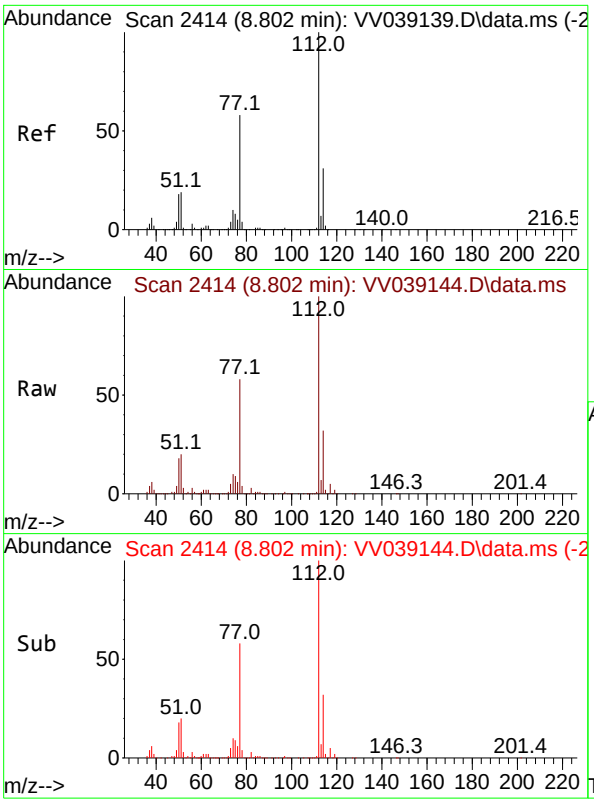


#64
Tetrachloroethene
Concen: 50.954 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:164 Resp: 346271

Ion	Ratio	Lower	Upper
164	100		
166	127.5	101.6	152.4
129	99.6	78.5	117.7
131	96.7	76.8	115.2





#65
Chlorobenzene
Concen: 51.041 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

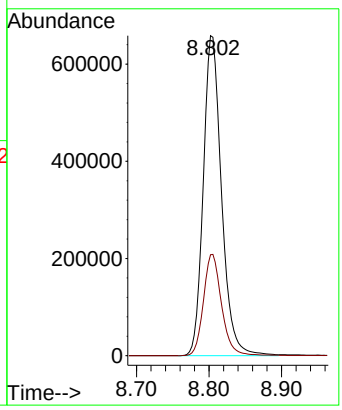
Tgt Ion:112 Resp: 115350

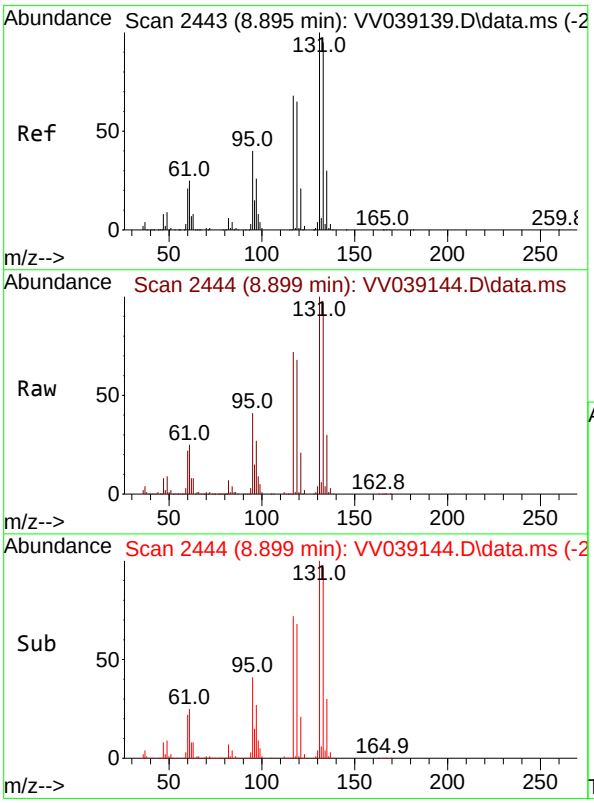
Ion	Ratio	Lower	Upper
112	100		
114	31.5	24.6	37.0

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

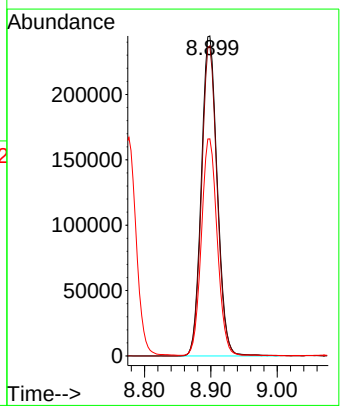


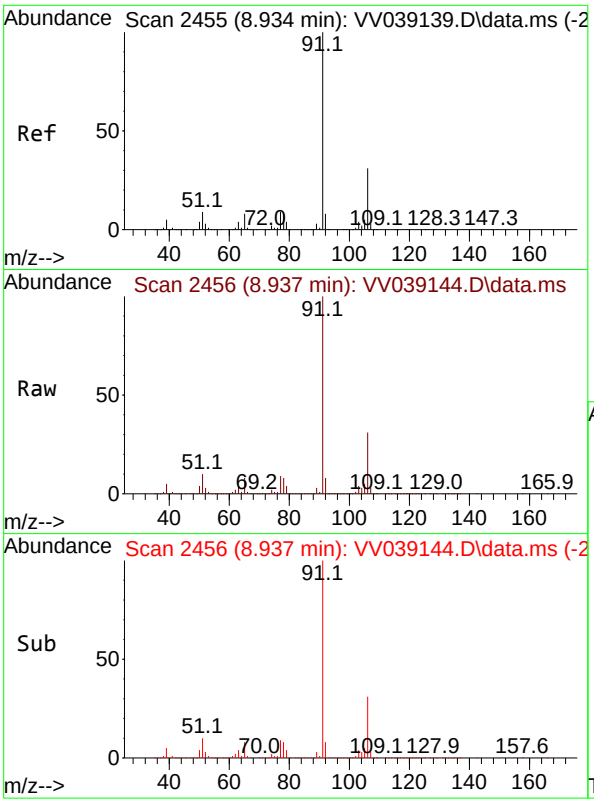


#66
1,1,1,2-Tetrachloroethane
Concen: 50.136 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:131 Resp: 409401

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	141.8
119	66.9	33.3	99.8





#67
Ethyl Benzene
Concen: 57.438 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

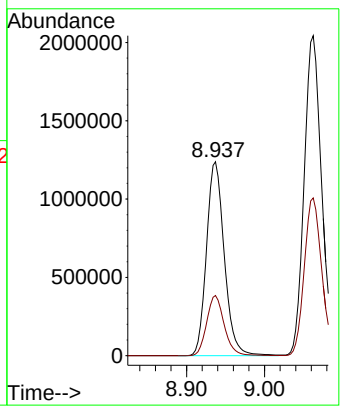
Tgt Ion: 91 Resp: 196494

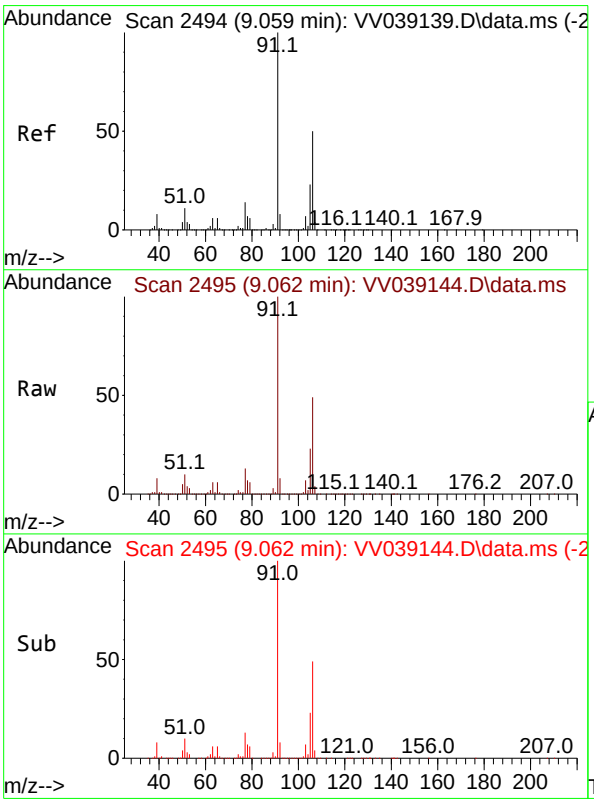
Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

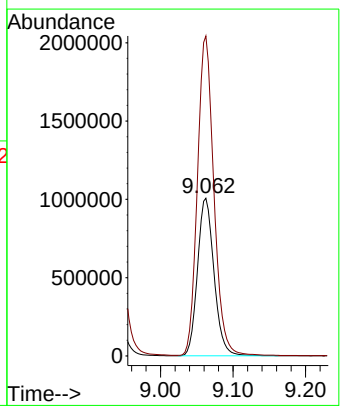


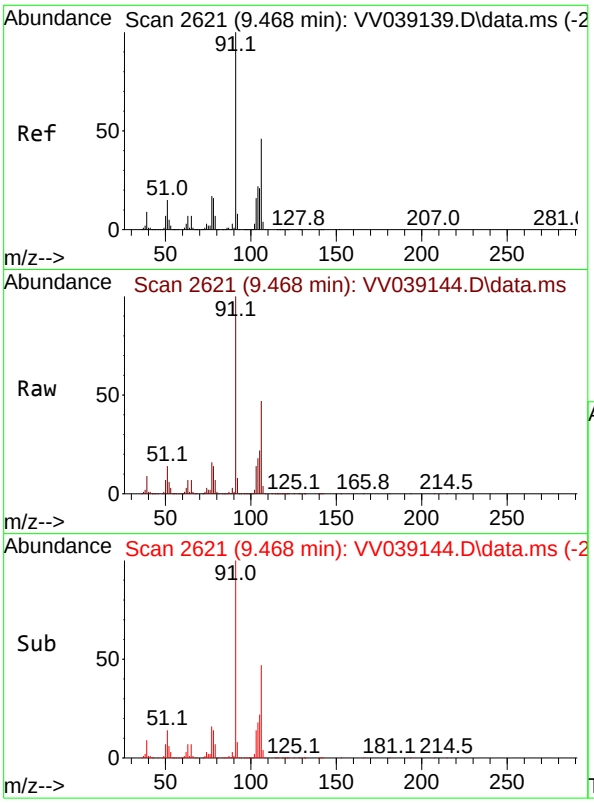


#68
m/p-Xylenes
Concen: 120.582 ug/l
RT: 9.062 min Scan# 2495
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:106 Resp: 1592118

Ion	Ratio	Lower	Upper
106	100		
91	203.1	162.5	243.7





#69
o-Xylene
Concen: 60.414 ug/l
RT: 9.468 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

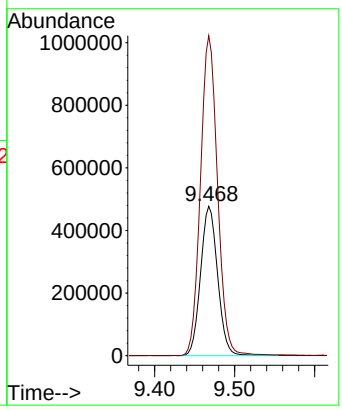
Tgt Ion:106 Resp: 70630

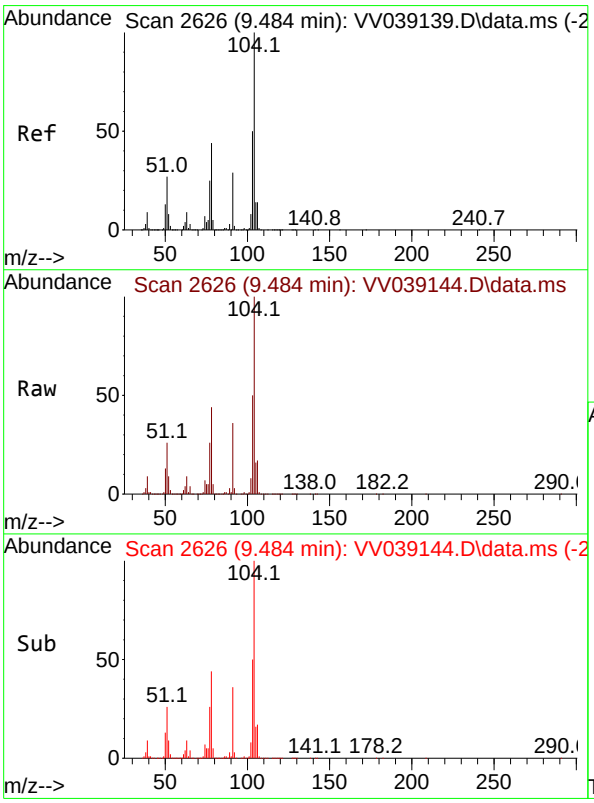
Ion	Ratio	Lower	Upper
106	100		
91	215.7	109.1	327.3

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

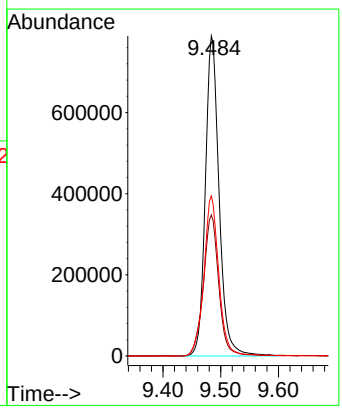


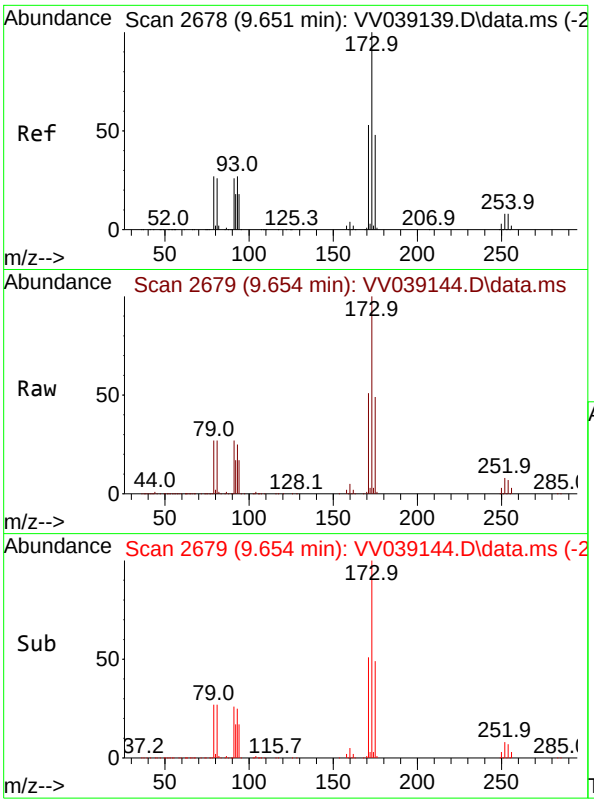


#70
Styrene
Concen: 52.671 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:104 Resp: 1306032

Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.8	59.6
103	54.4	43.4	65.2

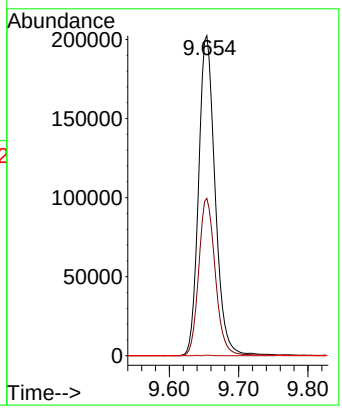




#71
Bromoform
Concen: 52.585 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:173 Resp: 33541

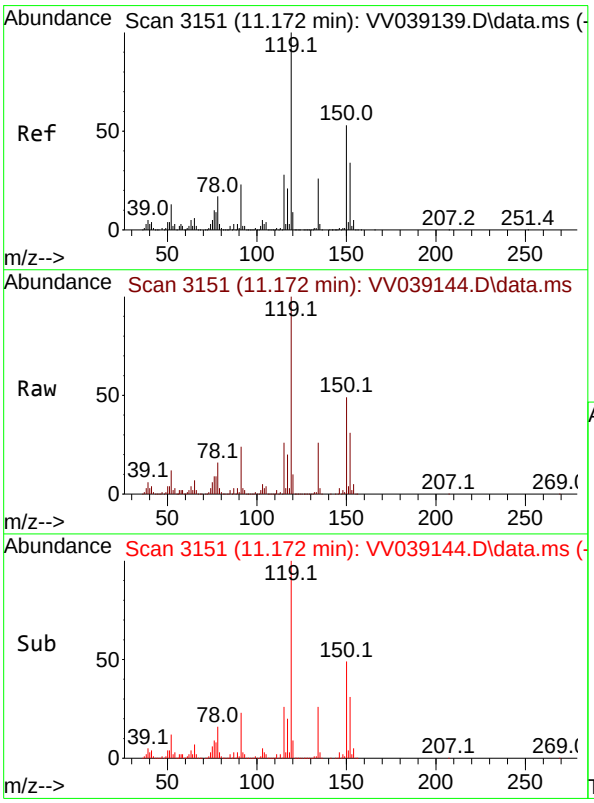
Ion	Ratio	Lower	Upper
173	100		
175	49.3	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

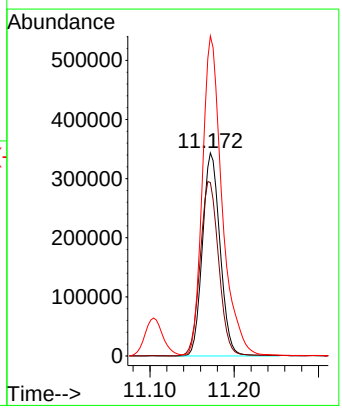
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

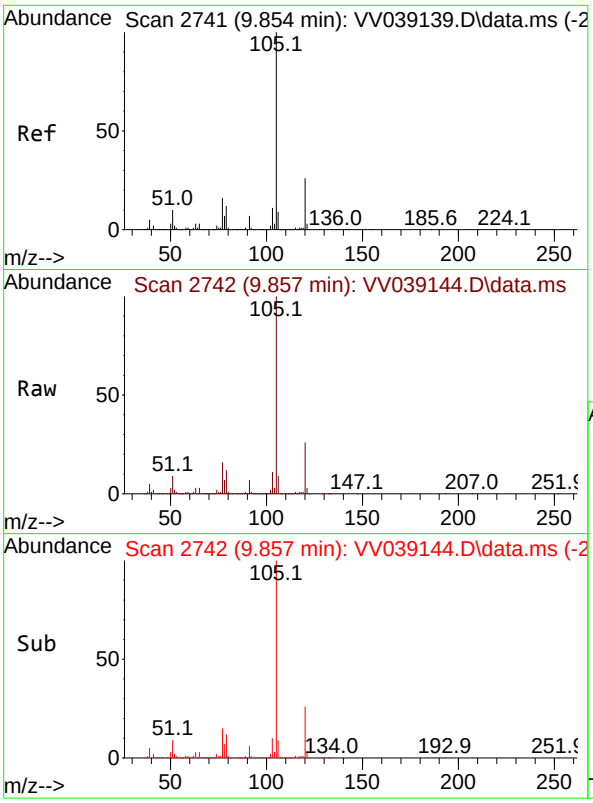


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:152 Resp: 500088

Ion	Ratio	Lower	Upper
152	100		
115	90.2	44.8	134.4
150	176.9	0.0	353.8

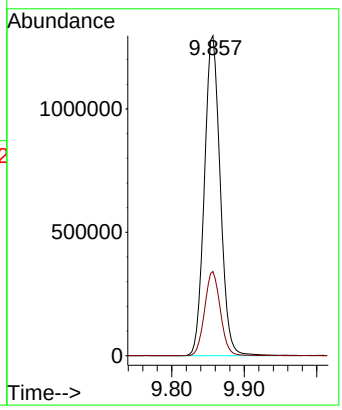




#73
Isopropylbenzene
Concen: 54.210 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 196628

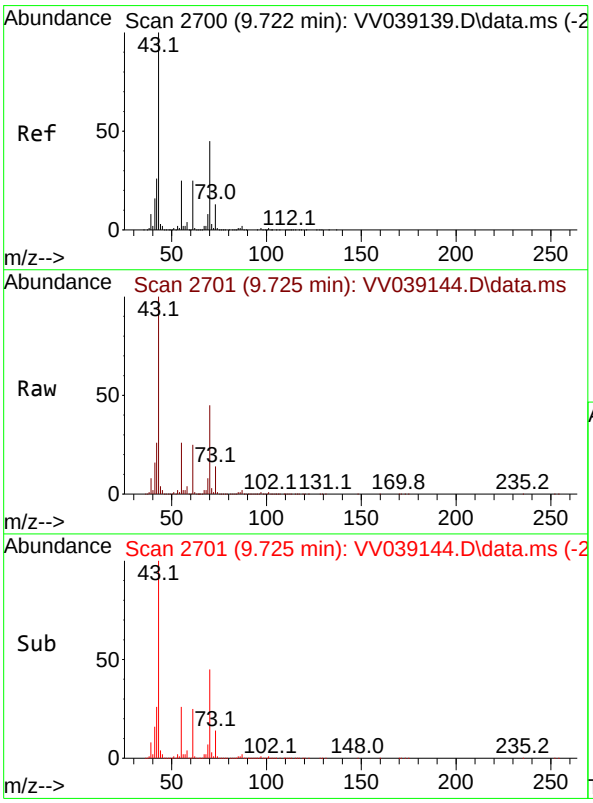
Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.1	39.1



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

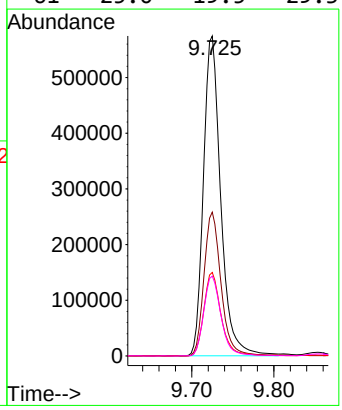
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

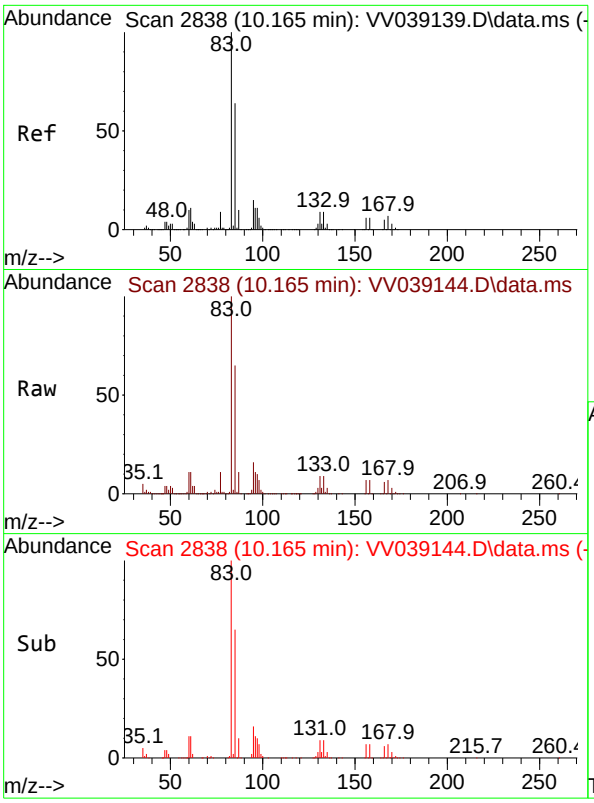


#74
N-amyl acetate
Concen: 58.135 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 841099

Ion	Ratio	Lower	Upper
43	100		
70	44.4	35.4	53.0
55	26.0	20.6	30.8
61	25.0	19.5	29.3





#75
1,1,2,2-Tetrachloroethane
Concen: 45.610 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

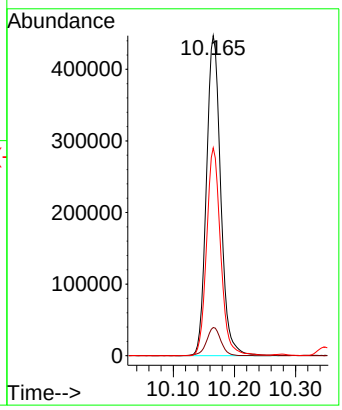
Tgt Ion: 83 Resp: 72486

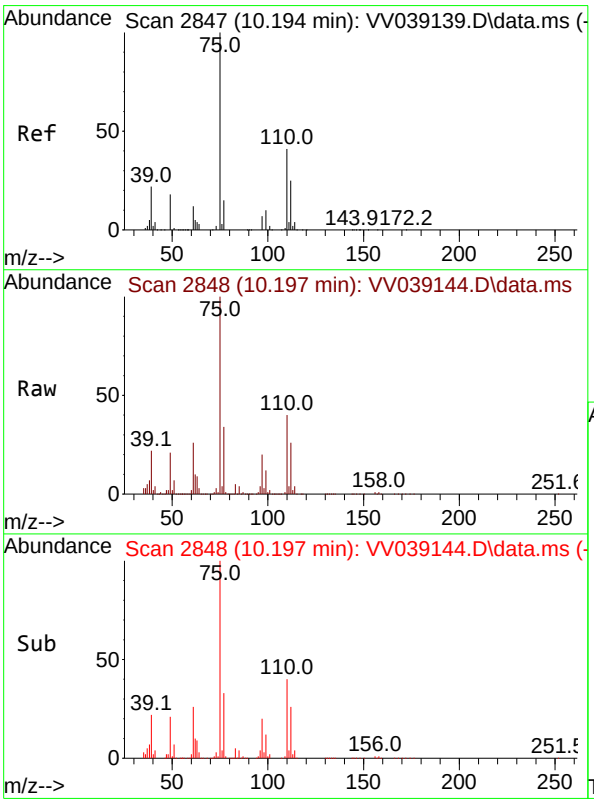
Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.7
85	64.0	31.9	95.9

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

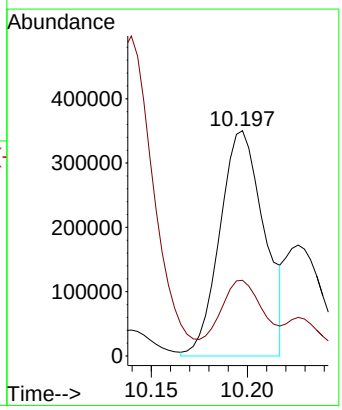


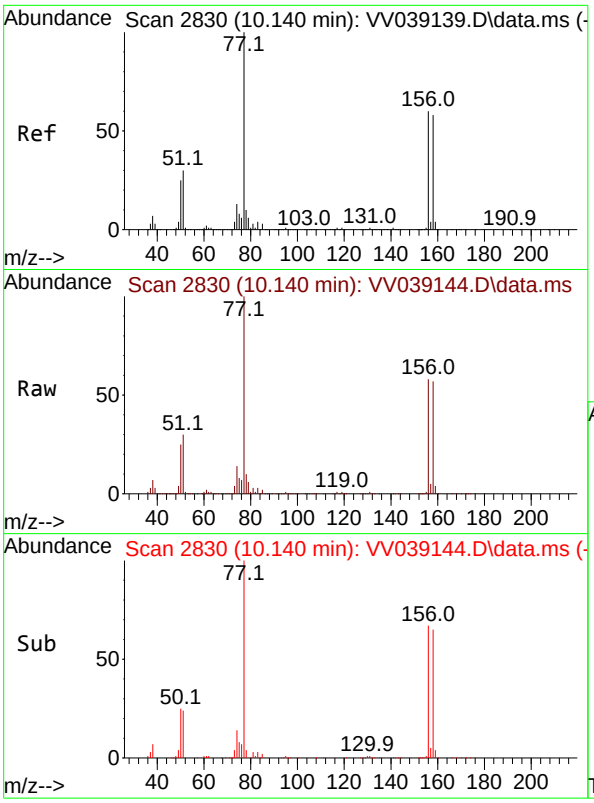


#76
1,2,3-Trichloropropane
Concen: 49.515 ug/l m
RT: 10.197 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 563785

Ion	Ratio	Lower	Upper
75	100		
77	13.7	11.3	33.8

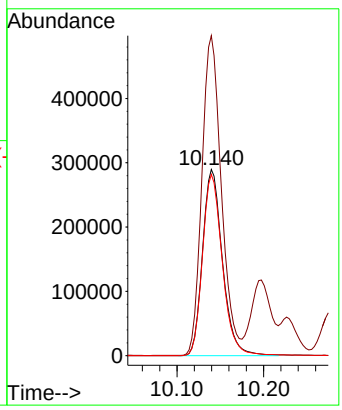




#77
Bromobenzene
Concen: 49.193 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:156 Resp: 46293

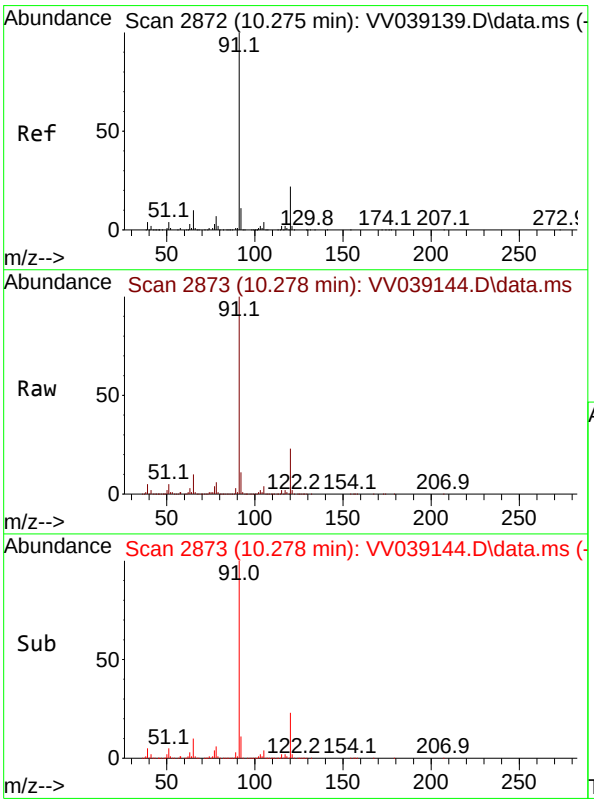
Ion	Ratio	Lower	Upper
156	100		
77	168.2	83.4	250.1
158	97.3	48.8	146.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

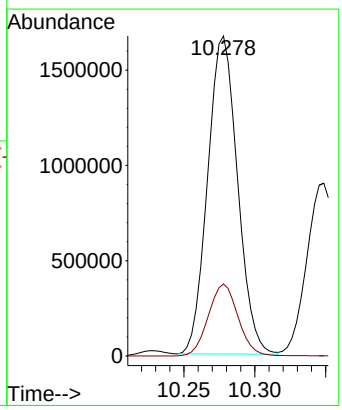
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

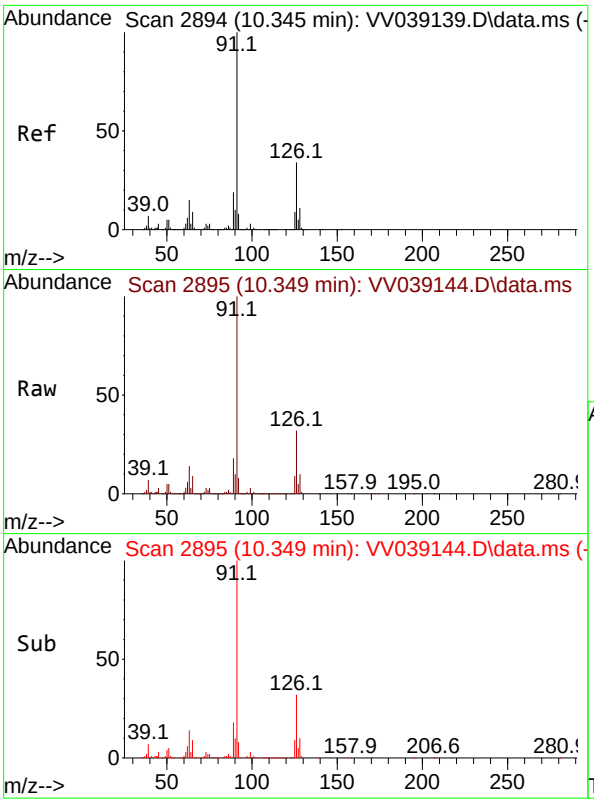


#78
n-propylbenzene
Concen: 55.347 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 2444658

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3

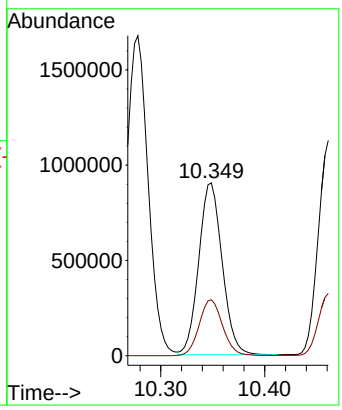




#79
2-Chlorotoluene
Concen: 53.426 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 141204

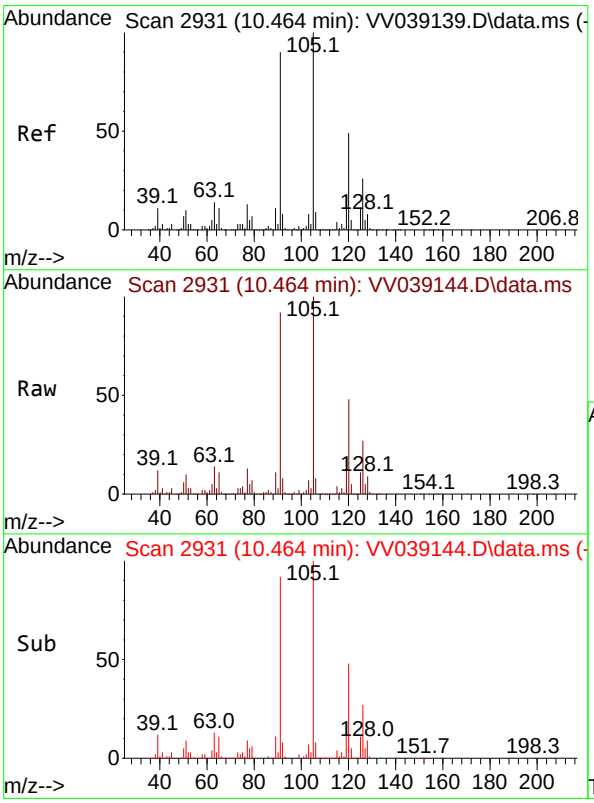
Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.7	50.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

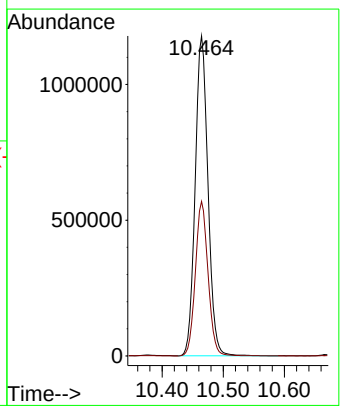
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

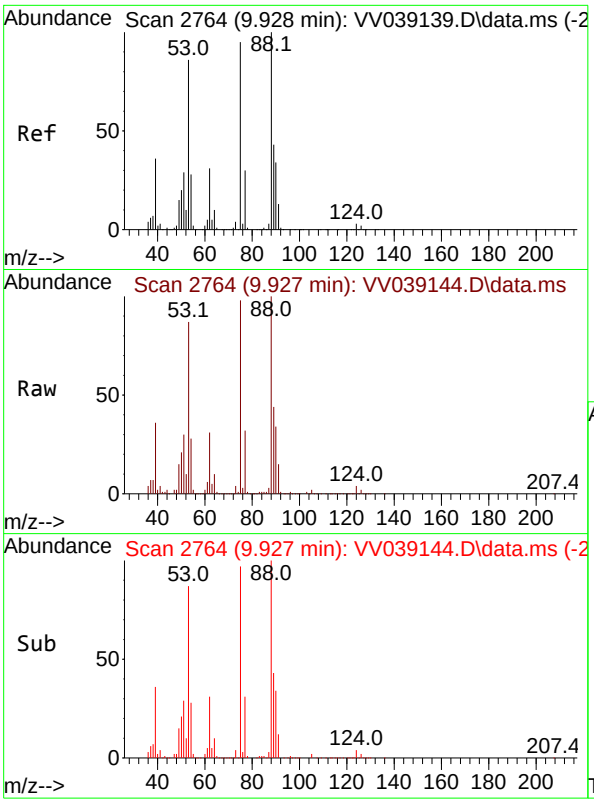


#80
1,3,5-Trimethylbenzene
Concen: 56.698 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 1709353

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 52.262 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

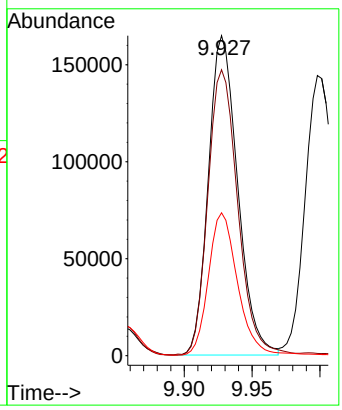
Tgt Ion: 75 Resp: 24787

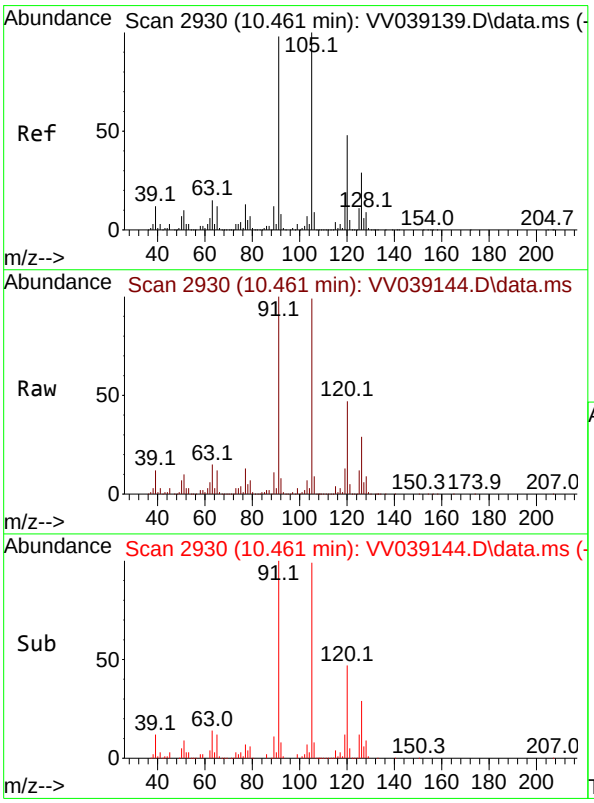
Ion	Ratio	Lower	Upper
75	100		
53	90.6	72.5	108.7
89	44.6	37.2	55.8

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

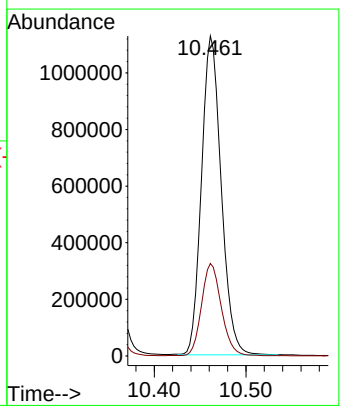


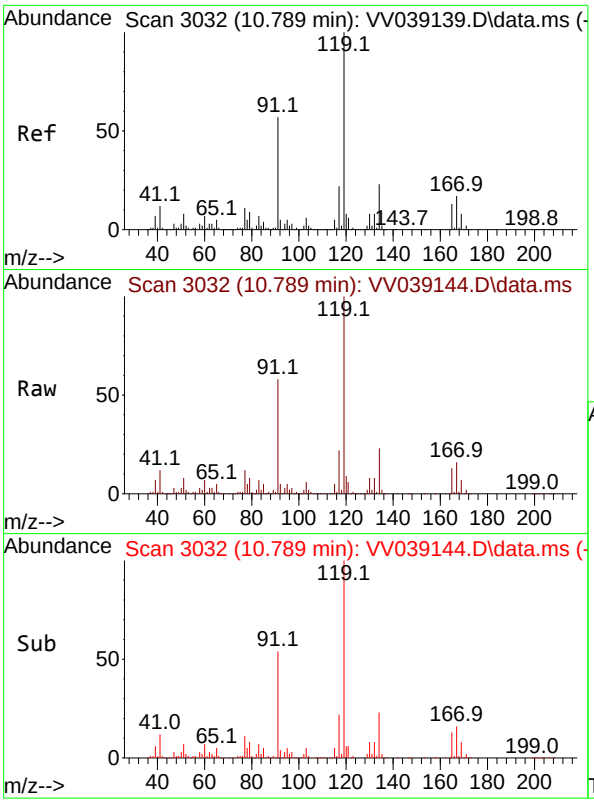


#82
4-Chlorotoluene
Concen: 54.824 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 1680201

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.5	43.6





#83
tert-Butylbenzene
Concen: 53.584 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

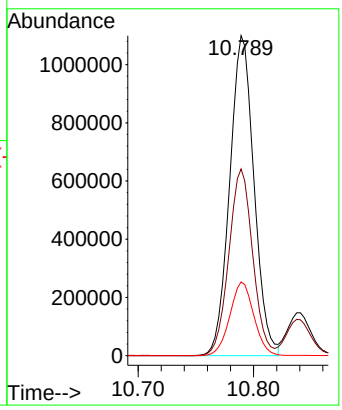
Tgt Ion:119 Resp: 161087

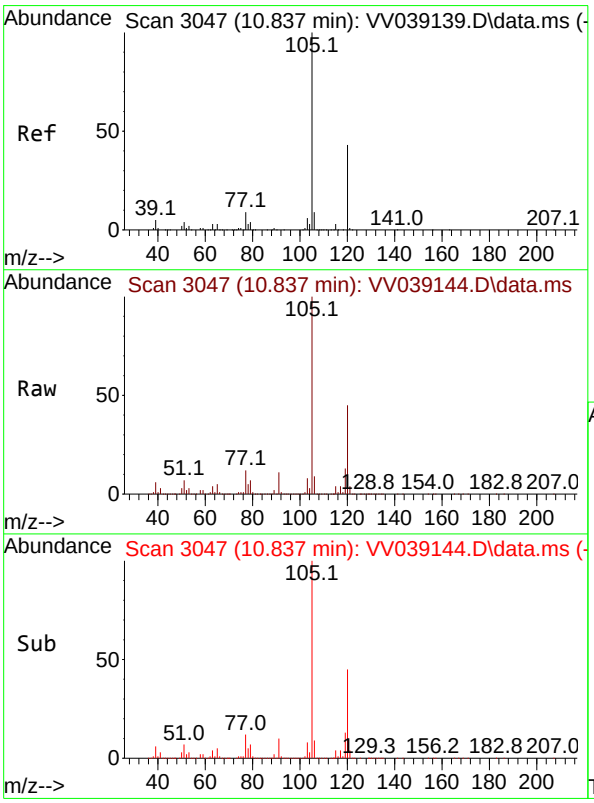
Ion	Ratio	Lower	Upper
119	100		
91	57.1	28.5	85.6
134	22.9	11.5	34.4

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

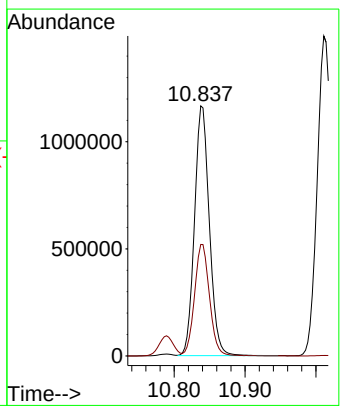


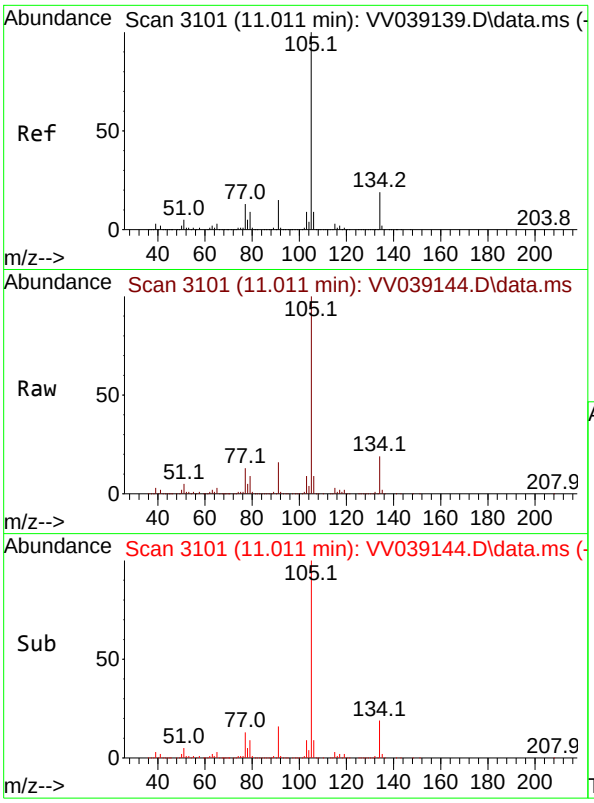


#84
1,2,4-Trimethylbenzene
Concen: 57.944 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 1695994

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.4	67.2

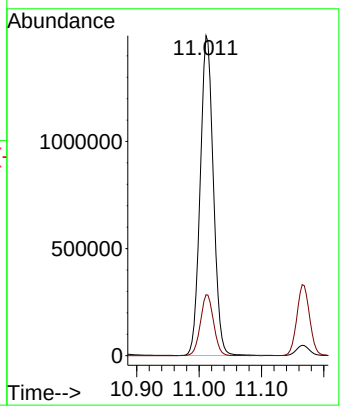




#85
sec-Butylbenzene
Concen: 54.911 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 218954

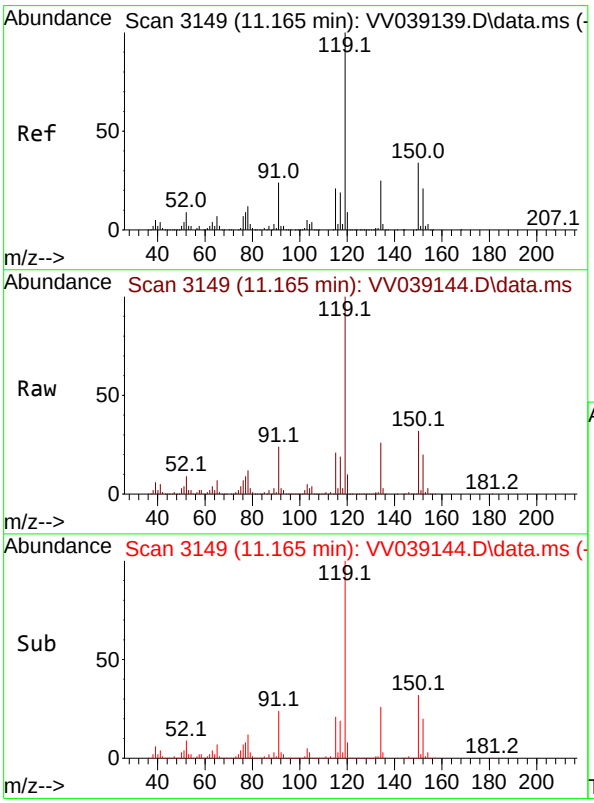
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.6	28.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

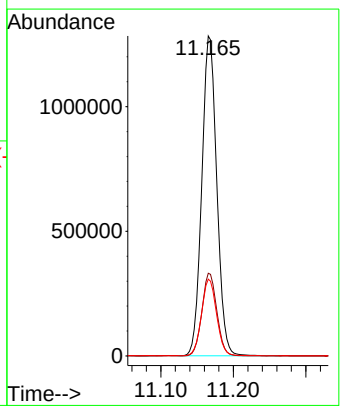
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

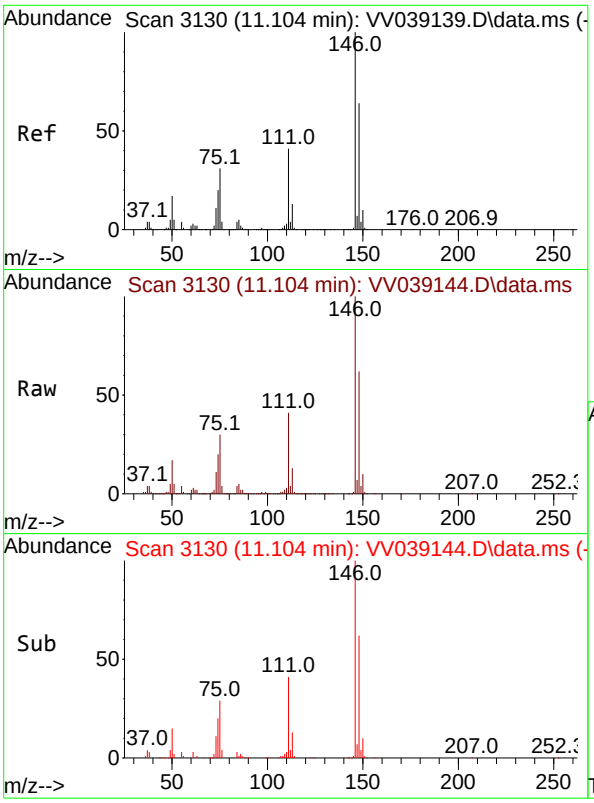


#86
p-Isopropyltoluene
Concen: 55.495 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:119 Resp: 1841747

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.7	38.0
91	24.0	12.0	36.1

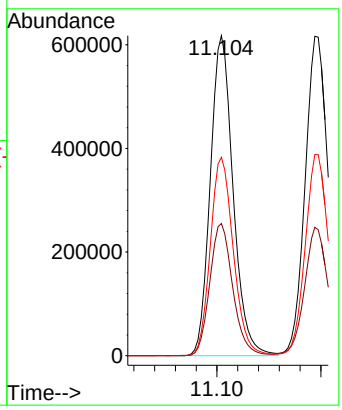




#87
1,3-Dichlorobenzene
Concen: 49.328 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 93948

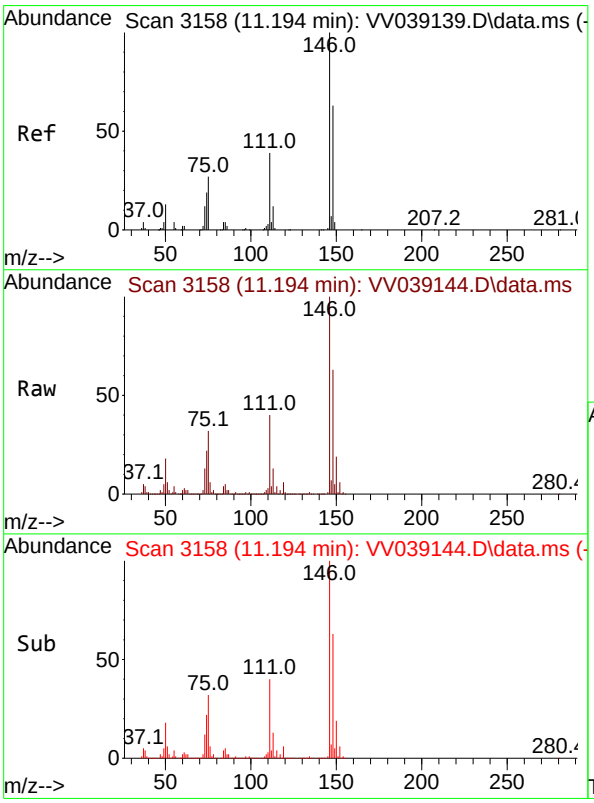
Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.9	62.8
148	62.8	31.8	95.3



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

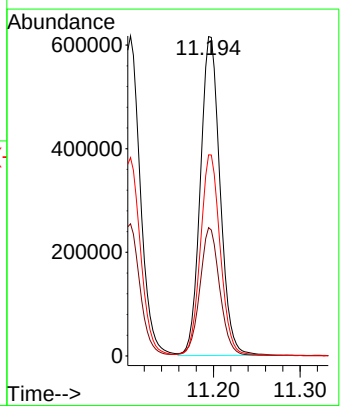
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

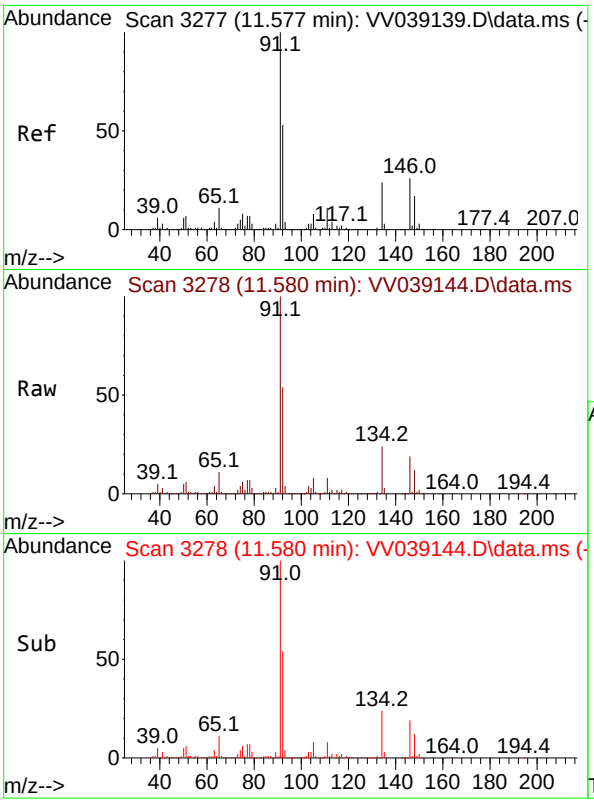


#88
1,4-Dichlorobenzene
Concen: 46.502 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 971665

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.3	60.8
148	64.0	31.4	94.2

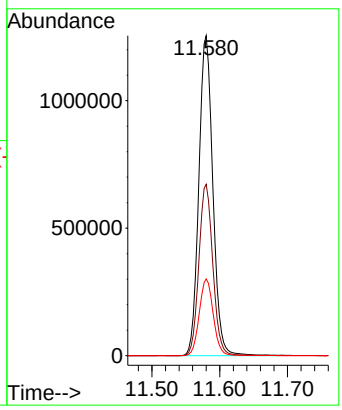




#89
n-Butylbenzene
Concen: 56.740 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 179841

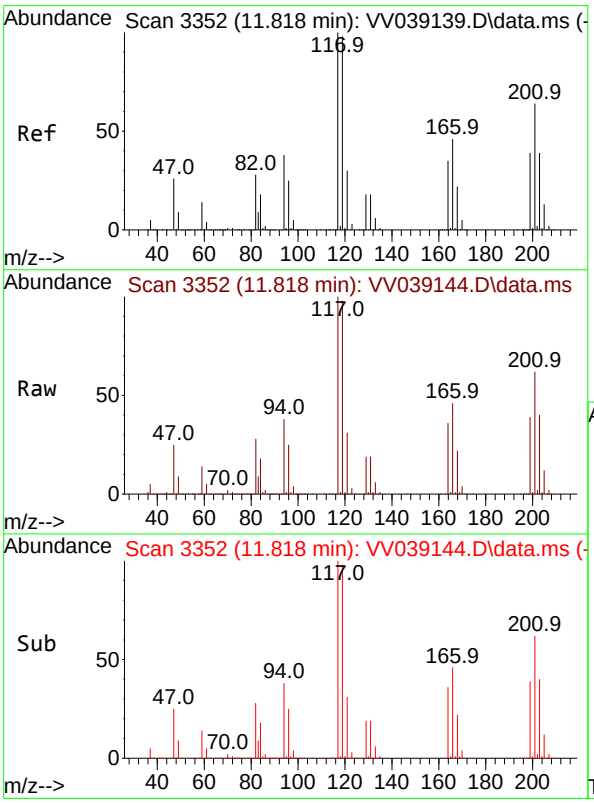
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.8
134	24.0	12.1	36.3



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

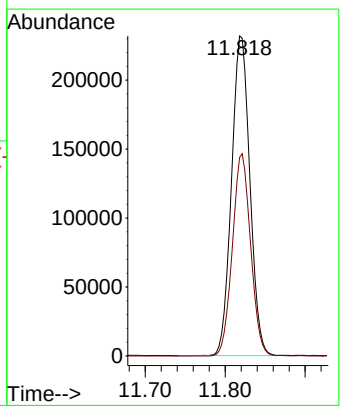
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

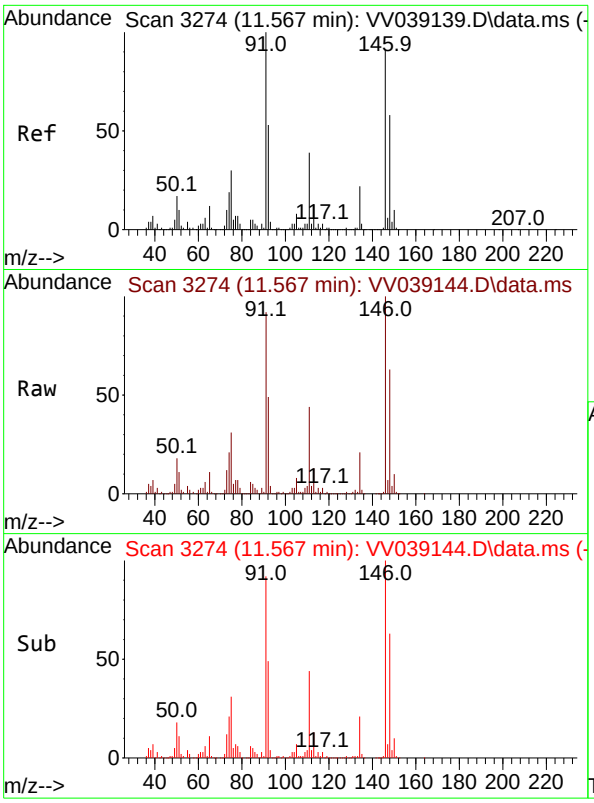


#90
Hexachloroethane
Concen: 45.296 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:117 Resp: 370188

Ion	Ratio	Lower	Upper
117	100		
201	62.9	32.3	96.8

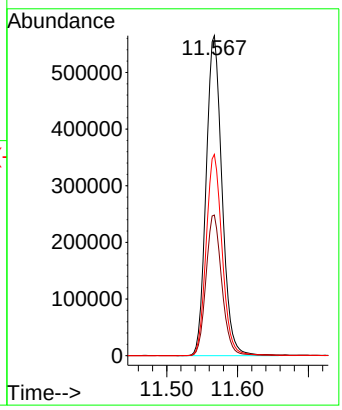




#91
1,2-Dichlorobenzene
Concen: 49.362 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 87834

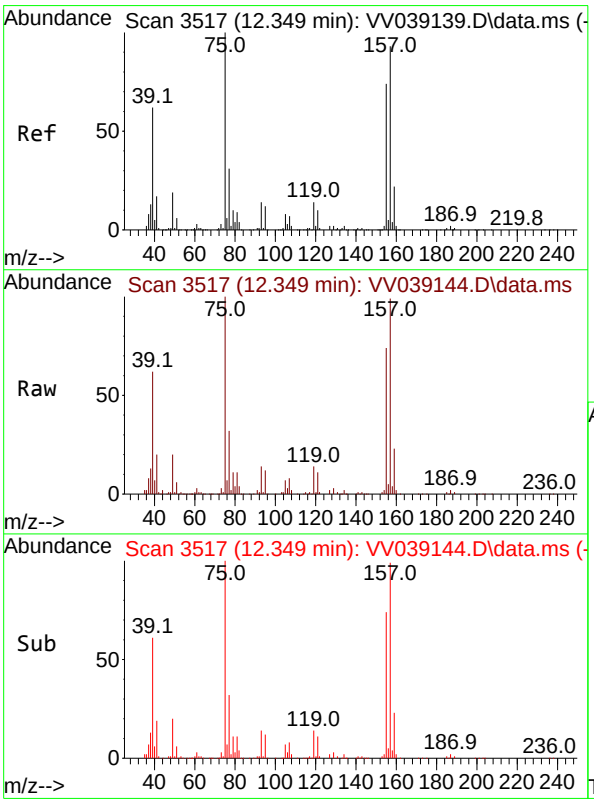
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.5	64.5
148	63.4	31.9	95.7



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

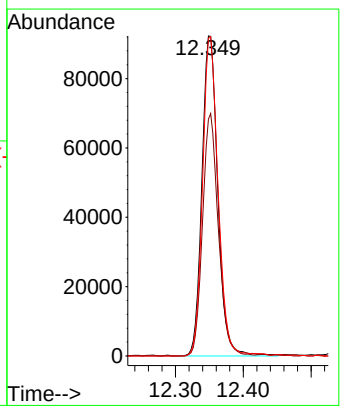
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

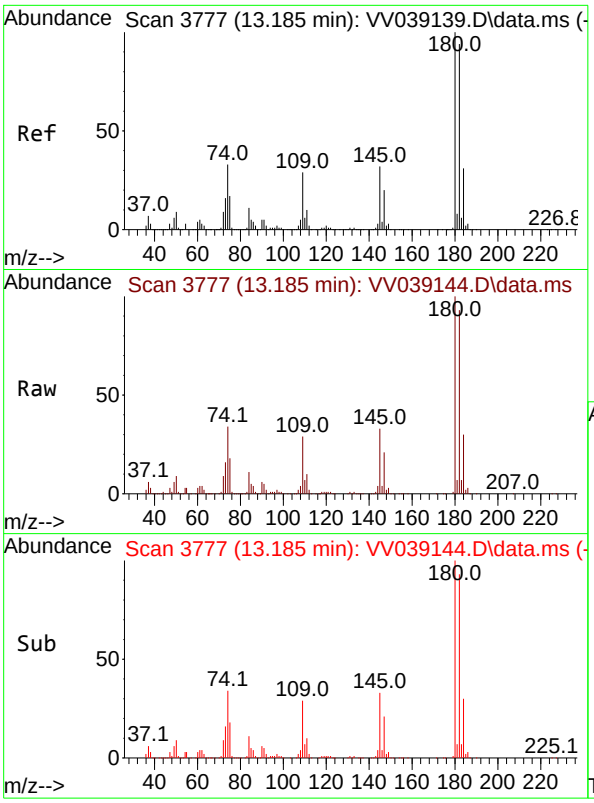


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.479 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 150399

Ion	Ratio	Lower	Upper
75	100		
155	75.5	38.6	115.8
157	97.3	49.5	148.3

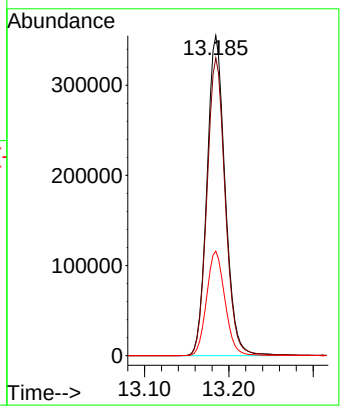




#93
1,2,4-Trichlorobenzene
Concen: 52.259 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:180 Resp: 53304

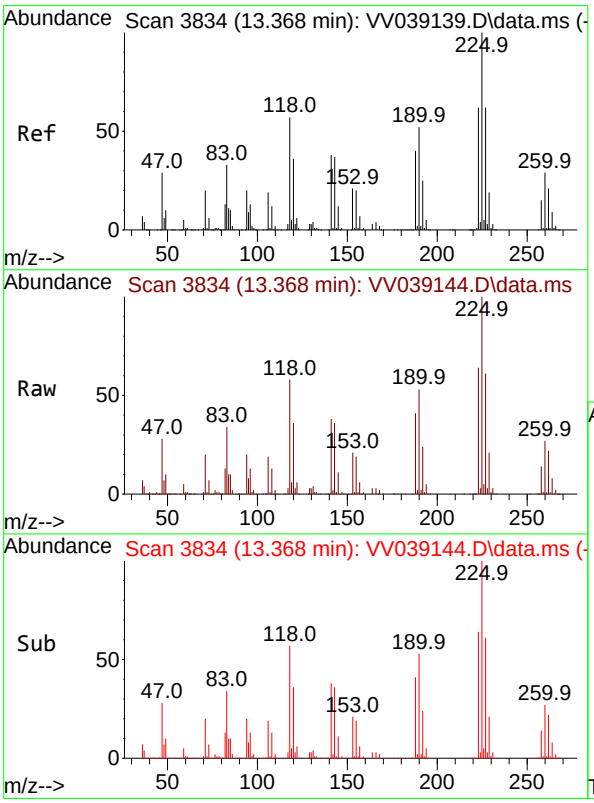
Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.1	141.4
145	33.1	16.3	48.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

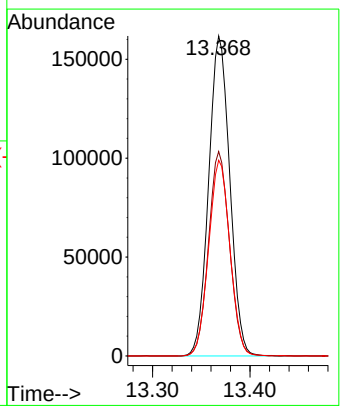
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

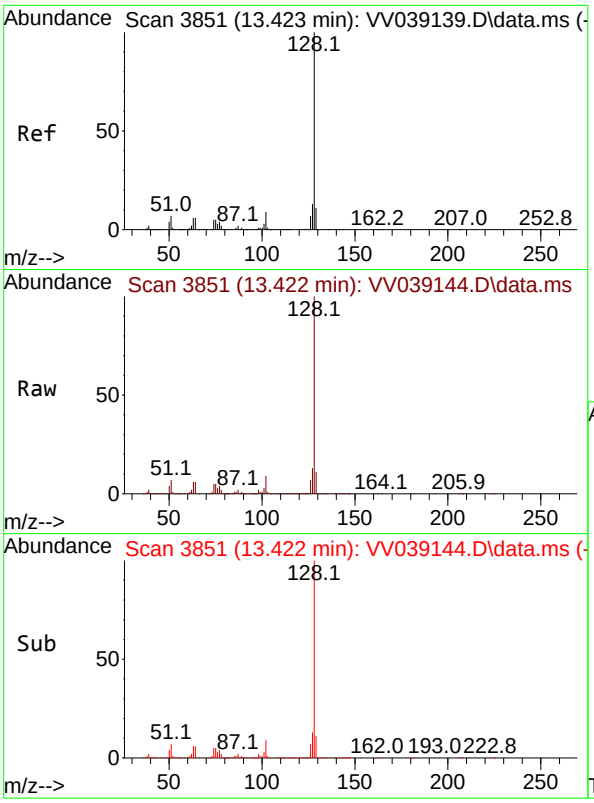


#94
Hexachlorobutadiene
Concen: 45.942 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:225 Resp: 243496

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.6	94.7
227	61.7	31.8	95.4

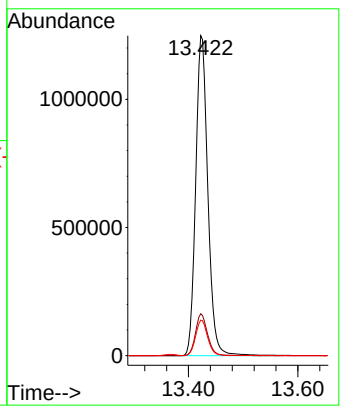




#95
Naphthalene
Concen: 58.231 ug/l
RT: 13.422 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:128 Resp: 191977

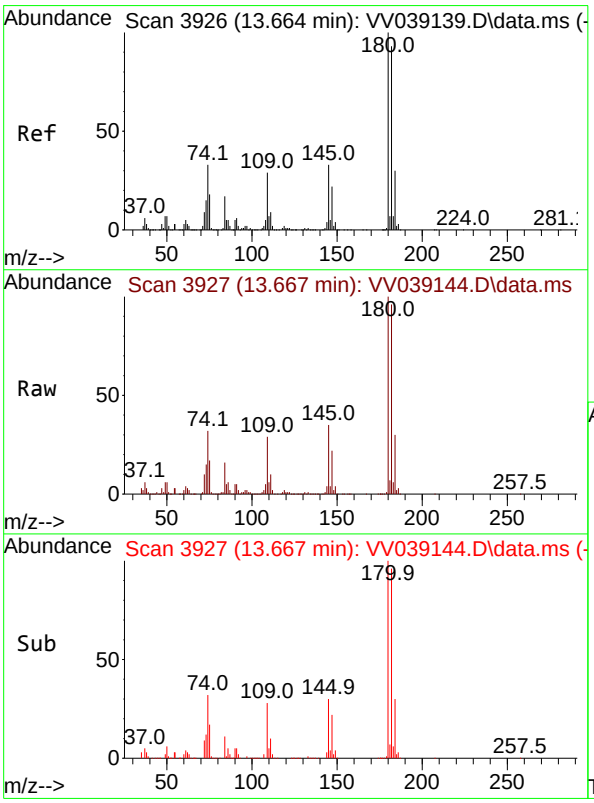
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.9	8.6	13.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

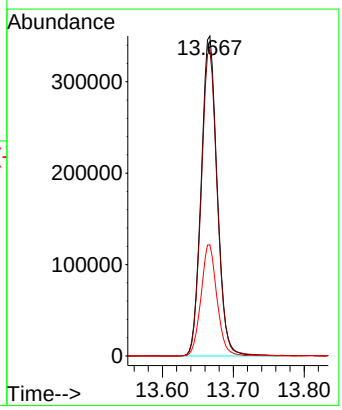
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.633 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:180 Resp: 549079

Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.9	140.8
145	34.6	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	0.791	0.716	9.5	91	0.00
3	P	Chloromethane	0.850	0.791	6.9	97	0.00
4	C	Vinyl Chloride	0.910	0.827	9.1#	93	0.00
5	T	Bromomethane	0.573	0.517	9.8	96	0.00
6	T	Chloroethane	0.631	0.544	13.8	96	0.00
7	T	Trichlorofluoromethane	1.317	1.224	7.1	97	0.00
8	T	Diethyl Ether	0.489	0.451	7.8	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.784	0.728	7.1	98	0.00
10	T	Methyl Iodide	0.746	0.743	0.4	89	0.00
11	T	Tert butyl alcohol	0.153	0.154	-0.7	106	0.00
12	CM	1,1-Dichloroethene	0.754	0.692	8.2#	97	0.00
13	T	Acrolein	0.027	0.029	-7.4	103	0.00
14	T	Allyl chloride	1.347	1.268	5.9	96	0.00
15	T	Acrylonitrile	0.490	0.470	4.1	101	0.00
16	T	Acetone	0.523	0.426	18.5	89	0.00
17	T	Carbon Disulfide	2.306	2.101	8.9	95	0.00
18	T	Methyl Acetate	1.072	1.063	0.8	102	0.00
19	T	Methyl tert-butyl Ether	2.402	2.269	5.5	96	0.00
20	T	Methylene Chloride	1.066	0.804	24.6#	97	0.00
21	T	trans-1,2-Dichloroethene	0.803	0.737	8.2	96	0.00
22	T	Diisopropyl ether	2.576	2.554	0.9	95	0.00
23	T	Vinyl Acetate	2.254	2.241	0.6	96	0.00
24	P	1,1-Dichloroethane	1.576	1.435	8.9	97	0.00
25	T	2-Butanone	0.579	0.607	-4.8	98	0.00
26	T	2,2-Dichloropropane	1.397	1.222	12.5	93	0.00
27	T	cis-1,2-Dichloroethene	0.885	0.867	2.0	94	0.00
28	T	Bromochloromethane	0.696	0.725	-4.2	101	0.00
29	T	Tetrahydrofuran	0.363	0.401	-10.5	102	0.00
30	C	Chloroform	1.645	1.546	6.0#	98	0.00
31	T	Cyclohexane	1.291	1.234	4.4	93	0.00
32	T	1,1,1-Trichloroethane	1.424	1.337	6.1	97	0.00
33	S	1,2-Dichloroethane-d4	0.724	0.695	4.0	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.402	0.409	-1.7	99	0.00
36	T	1,1-Dichloropropene	0.608	0.654	-7.6	97	0.00
37	T	Ethyl Acetate	0.737	0.768	-4.2	99	0.00
38	T	Carbon Tetrachloride	0.743	0.735	1.1	96	0.00
39	T	Methylcyclohexane	0.734	0.843	-14.9	94	0.00
40	TM	Benzene	1.979	2.070	-4.6	96	0.00
41	T	Methacrylonitrile	0.273	0.345	-26.4#	96	0.00
42	TM	1,2-Dichloroethane	0.693	0.711	-2.6	98	0.00
43	T	Isopropyl Acetate	1.005	1.126	-12.0	97	0.00
44	TM	Trichloroethene	0.457	0.468	-2.4	93	0.00
45	C	1,2-Dichloropropane	0.492	0.536	-8.9#	98	0.00
46	T	Dibromomethane	0.376	0.385	-2.4	96	0.00
47	T	Bromodichloromethane	0.778	0.797	-2.4	97	0.00
48	T	Methyl methacrylate	0.456	0.539	-18.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.008	-14.3	102	0.00
50	S	Toluene-d8	1.181	1.232	-4.3	100	0.00
51	T	4-Methyl-2-Pentanone	0.661	0.802	-21.3#	101	0.00
52	CM	Toluene	1.147	1.297	-13.1#	97	0.00
53	T	t-1,3-Dichloropropene	0.678	0.757	-11.7	96	0.00
54	T	cis-1,3-Dichloropropene	0.749	0.841	-12.3	95	0.00
55	T	1,1,2-Trichloroethane	0.514	0.527	-2.5	98	0.00
56	T	Ethyl methacrylate	0.611	0.743	-21.6#	95	0.00
57	T	1,3-Dichloropropane	0.812	0.873	-7.5	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.267	0.359	-34.5#	93	0.00
59	T	2-Hexanone	0.463	0.600	-29.6#	101	0.00
60	T	Dibromochloromethane	0.586	0.609	-3.9	99	0.00
61	T	1,2-Dibromoethane	0.526	0.561	-6.7	97	0.00
62	S	4-Bromofluorobenzene	0.486	0.552	-13.6	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.419	0.427	-1.9	97	0.00
65	PM	Chlorobenzene	1.393	1.422	-2.1	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.503	0.505	-0.4	97	0.00
67	C	Ethyl Benzene	2.108	2.422	-14.9#	95	0.00
68	T	m/p-Xylenes	0.814	0.981	-20.5#	97	0.00
69	T	o-Xylene	0.720	0.871	-21.0#	97	0.00
70	T	Styrene	1.263	1.610	-27.5#	97	0.00
71	P	Bromoform	0.393	0.413	-5.1	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.627	3.932	-8.4	97	0.00
74	T	N-amyl acetate	1.447	1.682	-16.2	97	0.00
75	P	1,1,2,2-Tetrachloroethane	1.589	1.449	8.8	99	0.00
76	T	1,2,3-Trichloropropane	1.138	1.127	1.0	104	0.00
77	T	Bromobenzene	0.941	0.926	1.6	97	0.00
78	T	n-propylbenzene	4.416	4.888	-10.7	97	0.00
79	T	2-Chlorotoluene	2.643	2.824	-6.8	97	0.00
80	T	1,3,5-Trimethylbenzene	3.014	3.418	-13.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.474	0.496	-4.6	97	0.00
82	T	4-Chlorotoluene	3.064	3.360	-9.7	98	0.00
83	T	tert-Butylbenzene	3.006	3.221	-7.2	97	0.00
84	T	1,2,4-Trimethylbenzene	2.926	3.391	-15.9	97	0.00
85	T	sec-Butylbenzene	3.987	4.378	-9.8	97	0.00
86	T	p-Isopropyltoluene	3.318	3.683	-11.0	97	0.00
87	T	1,3-Dichlorobenzene	1.904	1.879	1.3	98	0.00
88	T	1,4-Dichlorobenzene	2.089	1.943	7.0	97	0.00
89	T	n-Butylbenzene	3.169	3.596	-13.5	96	0.00
90	T	Hexachloroethane	0.817	0.740	9.4	99	0.00
91	T	1,2-Dichlorobenzene	1.779	1.756	1.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.330	0.301	8.8	102	0.00
93	T	1,2,4-Trichlorobenzene	1.020	1.066	-4.5	96	0.00
94	T	Hexachlorobutadiene	0.530	0.487	8.1	98	0.00
95	T	Naphthalene	3.296	3.839	-16.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.098	-5.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.000	45.238	9.5	91	0.00
3	P	Chloromethane	50.000	46.523	7.0	97	0.00
4	C	Vinyl Chloride	50.000	45.467	9.1#	93	0.00
5	T	Bromomethane	50.000	45.085	9.8	96	0.00
6	T	Chloroethane	50.000	50.873	-1.7	96	0.00
7	T	Trichlorofluoromethane	50.000	46.452	7.1	97	0.00
8	T	Diethyl Ether	50.000	46.136	7.7	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.465	7.1	98	0.00
10	T	Methyl Iodide	50.000	49.783	0.4	89	0.00
11	T	Tert butyl alcohol	250.000	252.173	-0.9	106	0.00
12	CM	1,1-Dichloroethene	50.000	45.922	8.2#	97	0.00
13	T	Acrolein	250.000	271.925	-8.8	103	0.00
14	T	Allyl chloride	50.000	47.092	5.8	96	0.00
15	T	Acrylonitrile	250.000	239.637	4.1	101	0.00
16	T	Acetone	250.000	237.325	5.1	89	0.00
17	T	Carbon Disulfide	50.000	45.563	8.9	95	0.00
18	T	Methyl Acetate	50.000	49.579	0.8	102	0.00
19	T	Methyl tert-butyl Ether	50.000	47.223	5.6	96	0.00
20	T	Methylene Chloride	50.000	51.536	-3.1	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.915	8.2	96	0.00
22	T	Diisopropyl ether	50.000	49.556	0.9	95	0.00
23	T	Vinyl Acetate	250.000	248.597	0.6	96	0.00
24	P	1,1-Dichloroethane	50.000	45.536	8.9	97	0.00
25	T	2-Butanone	250.000	262.050	-4.8	98	0.00
26	T	2,2-Dichloropropane	50.000	43.721	12.6	93	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.960	2.1	94	0.00
28	T	Bromochloromethane	50.000	52.149	-4.3	101	0.00
29	T	Tetrahydrofuran	250.000	276.528	-10.6	102	0.00
30	C	Chloroform	50.000	46.980	6.0#	98	0.00
31	T	Cyclohexane	50.000	47.799	4.4	93	0.00
32	T	1,1,1-Trichloroethane	50.000	46.922	6.2	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.041	3.9	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	50.832	-1.7	99	0.00
36	T	1,1-Dichloropropene	50.000	53.809	-7.6	97	0.00
37	T	Ethyl Acetate	50.000	52.050	-4.1	99	0.00
38	T	Carbon Tetrachloride	50.000	49.452	1.1	96	0.00
39	T	Methylcyclohexane	50.000	57.426	-14.9	94	0.00
40	TM	Benzene	50.000	52.293	-4.6	96	0.00
41	T	Methacrylonitrile	50.000	51.602	-3.2	96	0.00
42	TM	1,2-Dichloroethane	50.000	51.245	-2.5	98	0.00
43	T	Isopropyl Acetate	50.000	55.998	-12.0	97	0.00
44	TM	Trichloroethene	50.000	51.216	-2.4	93	0.00
45	C	1,2-Dichloropropane	50.000	54.495	-9.0#	98	0.00
46	T	Dibromomethane	50.000	51.116	-2.2	96	0.00
47	T	Bromodichloromethane	50.000	51.232	-2.5	97	0.00
48	T	Methyl methacrylate	50.000	59.104	-18.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1133.346	-13.3	102	0.00
50	S	Toluene-d8	50.000	52.199	-4.4	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	303.119	-21.2#	101	0.00
52	CM	Toluene	50.000	56.517	-13.0#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	55.823	-11.6	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.154	-12.3	95	0.00
55	T	1,1,2-Trichloroethane	50.000	51.231	-2.5	98	0.00
56	T	Ethyl methacrylate	50.000	60.810	-21.6#	95	0.00
57	T	1,3-Dichloropropane	50.000	53.769	-7.5	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.936	-4.0	93	0.00
59	T	2-Hexanone	250.000	280.545	-12.2	101	0.00
60	T	Dibromochloromethane	50.000	51.926	-3.9	99	0.00
61	T	1,2-Dibromoethane	50.000	53.295	-6.6	97	0.00
62	S	4-Bromofluorobenzene	50.000	56.823	-13.6	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	50.954	-1.9	97	0.00
65	PM	Chlorobenzene	50.000	51.041	-2.1	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.136	-0.3	97	0.00
67	C	Ethyl Benzene	50.000	57.438	-14.9#	95	0.00
68	T	m/p-Xylenes	100.000	120.582	-20.6#	97	0.00
69	T	o-Xylene	50.000	60.414	-20.8#	97	0.00
70	T	Styrene	50.000	52.671	-5.3	97	0.00
71	P	Bromoform	50.000	52.585	-5.2	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	54.210	-8.4	97	0.00
74	T	N-amyl acetate	50.000	58.135	-16.3	97	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.610	8.8	99	0.00
76	T	1,2,3-Trichloropropane	50.000	49.515	1.0	104	0.00
77	T	Bromobenzene	50.000	49.193	1.6	97	0.00
78	T	n-propylbenzene	50.000	55.347	-10.7	97	0.00
79	T	2-Chlorotoluene	50.000	53.426	-6.9	97	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.698	-13.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.262	-4.5	97	0.00
82	T	4-Chlorotoluene	50.000	54.824	-9.6	98	0.00
83	T	tert-Butylbenzene	50.000	53.584	-7.2	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.944	-15.9	97	0.00
85	T	sec-Butylbenzene	50.000	54.911	-9.8	97	0.00
86	T	p-Isopropyltoluene	50.000	55.495	-11.0	97	0.00
87	T	1,3-Dichlorobenzene	50.000	49.328	1.3	98	0.00
88	T	1,4-Dichlorobenzene	50.000	46.502	7.0	97	0.00
89	T	n-Butylbenzene	50.000	56.740	-13.5	96	0.00
90	T	Hexachloroethane	50.000	45.296	9.4	99	0.00
91	T	1,2-Dichlorobenzene	50.000	49.362	1.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.479	-5.0	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.259	-4.5	96	0.00
94	T	Hexachlorobutadiene	50.000	45.942	8.1	98	0.00
95	T	Naphthalene	50.000	58.231	-16.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.633	-5.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/25/2025 09:59

Lab File ID: VV039168.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.792	0.682		-13.89	20
Chloromethane	0.850	0.729	0.1	-14.23	20
Vinyl Chloride	0.910	0.819		-10	20
Bromomethane	0.573	0.458		-20.07	20
Chloroethane	0.631	0.507		-19.65	20
Trichlorofluoromethane	1.317	1.199		-8.96	20
1,1,2-Trichlorotrifluoroethane	0.784	0.710		-9.44	20
1,1-Dichloroethene	0.754	0.698		-7.43	20
Acetone	0.523	0.406		-22.37	20
Carbon Disulfide	2.306	2.004		-13.1	20
Methyl tert-butyl Ether	2.402	2.247		-6.45	20
Methyl Acetate	1.072	0.995		-7.18	20
Methylene Chloride	1.066	0.788		-26.08	20
trans-1,2-Dichloroethene	0.803	0.724		-9.84	20
1,1-Dichloroethane	1.576	1.367	0.1	-13.26	20
Cyclohexane	1.291	1.147		-11.15	20
2-Butanone	0.579	0.544		-6.05	20
Carbon Tetrachloride	0.743	0.689		-7.27	20
cis-1,2-Dichloroethene	0.885	0.825		-6.78	20
Bromochloromethane	0.696	0.612		-12.07	20
Chloroform	1.645	1.426		-13.31	20
1,1,1-Trichloroethane	1.424	1.255		-11.87	20
Methylcyclohexane	0.734	0.797		8.58	20
Benzene	1.979	1.926		-2.68	20
1,2-Dichloroethane	0.693	0.639		-7.79	20
Trichloroethene	0.457	0.463		1.31	20
1,2-Dichloropropane	0.492	0.493		0.2	20
Bromodichloromethane	0.778	0.729		-6.3	20
4-Methyl-2-Pentanone	0.661	0.702		6.2	20
Toluene	1.147	1.204		4.97	20
t-1,3-Dichloropropene	0.678	0.709		4.57	20
cis-1,3-Dichloropropene	0.749	0.783		4.54	20
1,1,2-Trichloroethane	0.514	0.498		-3.11	20
2-Hexanone	0.463	0.528		14.04	20
Dibromochloromethane	0.586	0.574		-2.05	20
1,2-Dibromoethane	0.526	0.534		1.52	20
Tetrachloroethene	0.419	0.418		-0.24	20
Chlorobenzene	1.393	1.377	0.3	-1.15	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/25/2025 09:59

Lab File ID: VV039168.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.108	2.320		10.06	20
m/p-Xylenes	0.814	0.936		14.99	20
o-Xylene	0.720	0.841		16.81	20
Styrene	1.263	1.530		21.14	20
Bromoform	0.393	0.402	0.1	2.29	20
Isopropylbenzene	3.627	3.946		8.8	20
1,1,2,2-Tetrachloroethane	1.589	1.396	0.3	-12.15	20
1,3-Dichlorobenzene	1.904	1.857		-2.47	20
1,4-Dichlorobenzene	2.089	1.903		-8.9	20
1,2-Dichlorobenzene	1.779	1.736		-2.42	20
1,2-Dibromo-3-Chloropropane	0.330	0.292		-11.52	20
1,2,4-Trichlorobenzene	1.020	1.062		4.12	20
1,2,3-Trichlorobenzene	1.043	1.082		3.74	20
1,2-Dichloroethane-d4	0.724	0.609		-15.88	20
Dibromofluoromethane	0.402	0.384		-4.48	20
Toluene-d8	1.181	1.121		-5.08	20
4-Bromofluorobenzene	0.486	0.508		4.53	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.596	168	605297	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	933338	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	901987	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	535710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	368829	42.102	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 84.200%			
35) Dibromofluoromethane	4.497	113	358851	47.826	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 95.660%			
50) Toluene-d8	7.233	98	1046447	47.485	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.980%			
62) 4-Bromofluorobenzene	9.998	95	473731	52.218	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 104.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	412859	43.088	ug/l	96
3) Chloromethane	1.227	50	441526	42.924	ug/l	99
4) Vinyl Chloride	1.294	62	495985	45.040	ug/l	99
5) Bromomethane	1.494	94	277073	39.912	ug/l	99
6) Chloroethane	1.558	64	307095	47.163	ug/l	96
7) Trichlorofluoromethane	1.722	101	725756	45.520	ug/l	99
8) Diethyl Ether	1.915	74	273800	46.259	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.079	101	429502	45.275	ug/l	98
10) Methyl Iodide	2.195	142	394240	43.640	ug/l	99
11) Tert butyl alcohol	2.571	59	462139	249.596	ug/l	98
12) 1,1-Dichloroethene	2.079	96	422387	46.283	ug/l	93
13) Acrolein	2.008	56	73826	229.786	ug/l	96
14) Allyl chloride	2.355	41	725818	44.523	ug/l	97
15) Acrylonitrile	2.670	53	1328524	223.829	ug/l	99
16) Acetone	2.117	43	1227421	224.844	ug/l	98
17) Carbon Disulfide	2.249	76	1213128	43.464	ug/l	99
18) Methyl Acetate	2.378	43	602375	46.408	ug/l	97
19) Methyl tert-butyl Ether	2.709	73	1360066	46.768	ug/l	99
20) Methylene Chloride	2.455	84	477153	50.438	ug/l	94
21) trans-1,2-Dichloroethene	2.699	96	438480	45.131	ug/l	98
22) Diisopropyl ether	3.214	45	1401924	44.947	ug/l	97
23) Vinyl Acetate	3.185	43	6223966	228.109	ug/l	98
24) 1,1-Dichloroethane	3.114	63	827604	43.389	ug/l	100
25) 2-Butanone	3.863	43	1647490	234.849	ug/l	96
26) 2,2-Dichloropropane	3.805	77	690029	40.800	ug/l	100
27) cis-1,2-Dichloroethene	3.815	96	499109	46.579	ug/l	98
28) Bromochloromethane	4.143	49	370658	44.019	ug/l	91
29) Tetrahydrofuran	4.233	42	1075144	244.856	ug/l	97
30) Chloroform	4.275	83	862902	43.324	ug/l	98
31) Cyclohexane	4.580	56	694256	44.432	ug/l	97
32) 1,1,1-Trichloroethane	4.510	97	759916	44.071	ug/l	98
36) 1,1-Dichloropropene	4.741	75	562517	49.586	ug/l	99
37) Ethyl Acetate	3.973	43	650966	47.290	ug/l	98
38) Carbon Tetrachloride	4.731	117	642615	46.350	ug/l	99
39) Methylcyclohexane	6.043	83	743575	54.277	ug/l	99
40) Benzene	5.005	78	1797939	48.671	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.156	41	291884	47.017	ug/l		98
42) 1,2-Dichloroethane	5.037	62	596048	46.050	ug/l		98
43) Isopropyl Acetate	5.191	43	954350	50.848	ug/l		98
44) Trichloroethene	5.828	130	432014	50.680	ug/l		99
45) 1,2-Dichloropropane	6.085	63	459902	50.088	ug/l		99
46) Dibromomethane	6.220	93	337738	48.059	ug/l		97
47) Bromodichloromethane	6.423	83	680557	46.843	ug/l		98
48) Methyl methacrylate	6.294	41	449431	52.825	ug/l		98
49) 1,4-Dioxane	6.291	88	155938	1135.751	ug/l		97
51) 4-Methyl-2-Pentanone	7.146	43	3274291	265.177	ug/l		98
52) Toluene	7.307	92	1123906	52.474	ug/l		99
53) t-1,3-Dichloropropene	7.571	75	661472	52.243	ug/l		99
54) cis-1,3-Dichloropropene	6.944	75	731190	52.312	ug/l		97
55) 1,1,2-Trichloroethane	7.757	97	465236	48.443	ug/l		98
56) Ethyl methacrylate	7.712	69	658147	57.707	ug/l		95
57) 1,3-Dichloropropane	7.931	76	748312	49.373	ug/l		100
58) 2-Chloroethyl Vinyl ether	6.808	63	1657102	257.039	ug/l		99
59) 2-Hexanone	8.062	43	2465950	247.438	ug/l		97
60) Dibromochloromethane	8.165	129	535532	48.938	ug/l		99
61) 1,2-Dibromoethane	8.271	107	498142	50.719	ug/l		100
64) Tetrachloroethene	7.895	164	376666	49.857	ug/l		97
65) Chlorobenzene	8.802	112	1242390	49.450	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.895	131	435516	47.975	ug/l		98
67) Ethyl Benzene	8.934	91	2092639	55.024	ug/l		99
68) m/p-Xylenes	9.059	106	1688294	115.018	ug/l		100
69) o-Xylene	9.468	106	758328	58.347	ug/l		98
70) Styrene	9.484	104	1379790	50.114	ug/l		99
71) Bromoform	9.651	173	362481	51.118	ug/l	#	99
73) Isopropylbenzene	9.853	105	2113988	54.407	ug/l		99
74) N-amyl acetate	9.725	43	853417	55.064	ug/l		98
75) 1,1,2,2-Tetrachloroethane	10.165	83	747856	43.928	ug/l		99
76) 1,2,3-Trichloropropane	10.197	75	573502	47.019	ug/l		98
77) Bromobenzene	10.140	156	497564	49.357	ug/l		98
78) n-propylbenzene	10.278	91	2554851	53.995	ug/l		99
79) 2-Chlorotoluene	10.345	91	1498849	52.939	ug/l		100
80) 1,3,5-Trimethylbenzene	10.464	105	1809221	56.020	ug/l		100
81) trans-1,4-Dichloro-2-b...	9.927	75	258743	50.926	ug/l		97
82) 4-Chlorotoluene	10.461	91	1769699	53.904	ug/l		100
83) tert-Butylbenzene	10.789	119	1725454	53.579	ug/l		100
84) 1,2,4-Trimethylbenzene	10.837	105	1777572	56.693	ug/l		98
85) sec-Butylbenzene	11.011	105	2294341	53.713	ug/l		99
86) p-Isopropyltoluene	11.165	119	1933306	54.380	ug/l		99
87) 1,3-Dichlorobenzene	11.104	146	995077	48.773	ug/l		100
88) 1,4-Dichlorobenzene	11.194	146	1019216	45.535	ug/l		99
89) n-Butylbenzene	11.580	91	1854102	54.607	ug/l		100
90) Hexachloroethane	11.821	117	387482	44.260	ug/l		99
91) 1,2-Dichlorobenzene	11.567	146	930166	48.799	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.348	75	156226	50.961	ug/l		97
93) 1,2,4-Trichlorobenzene	13.184	180	568781	52.055	ug/l		99
94) Hexachlorobutadiene	13.368	225	261028	45.975	ug/l		99
95) Naphthalene	13.422	128	2039508	57.749	ug/l		100
96) 1,2,3-Trichlorobenzene	13.667	180	579422	51.848	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

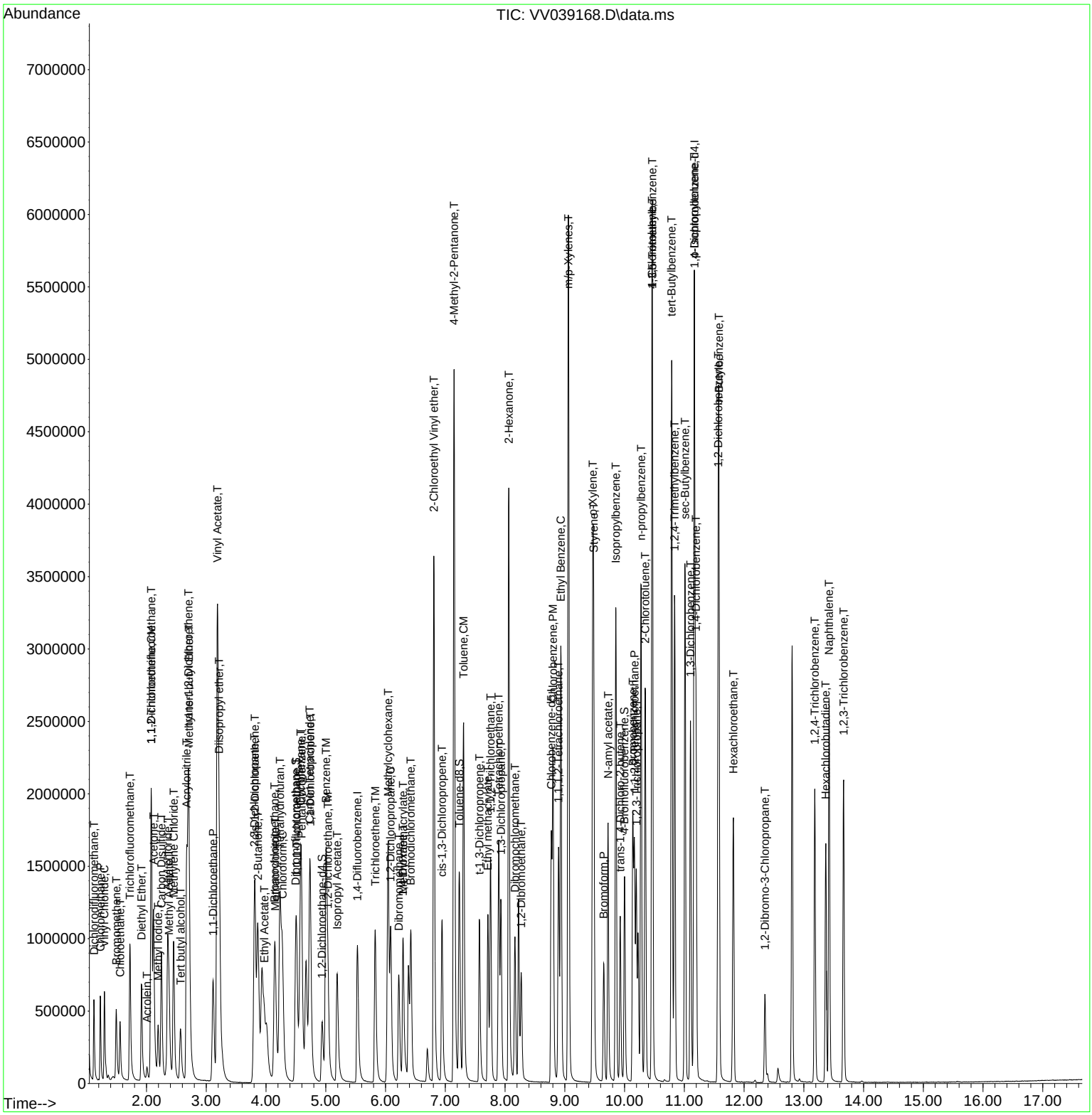
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

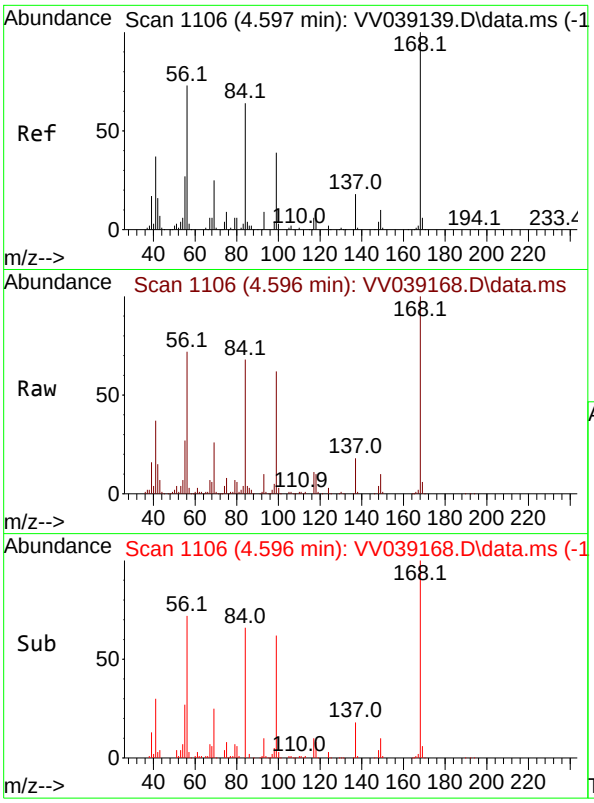
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



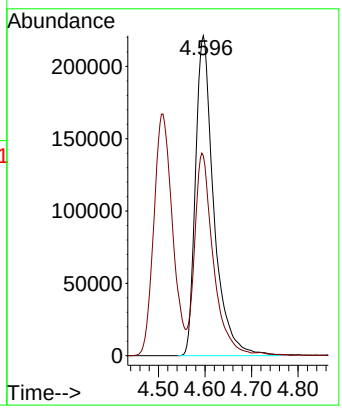


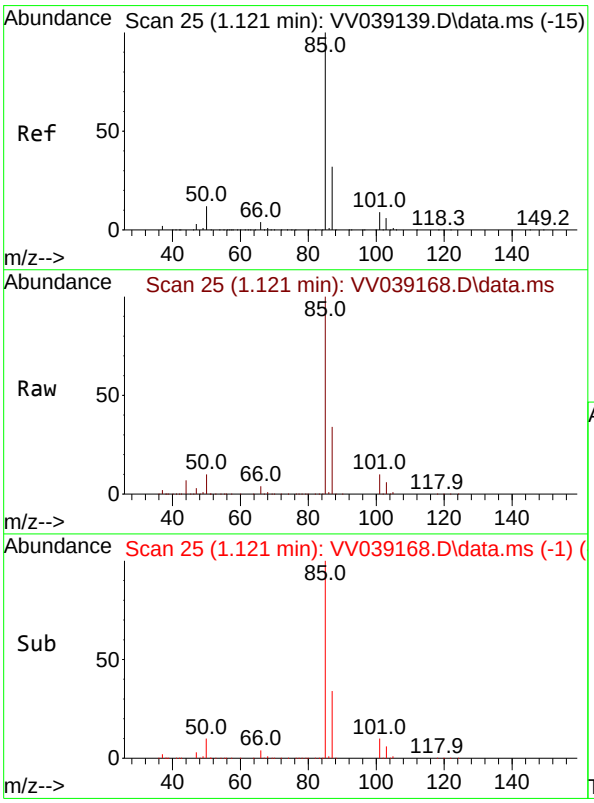
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 605297

Ion	Ratio	Lower	Upper
168	100		
99	62.1	49.6	74.4

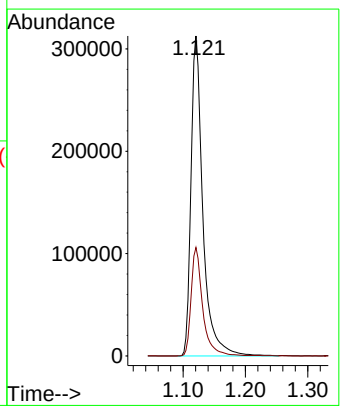


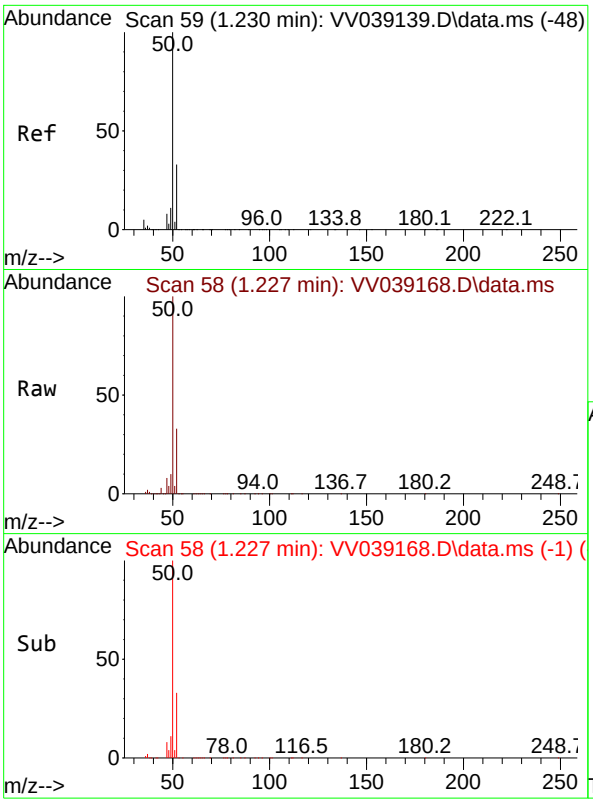


#2
Dichlorodifluoromethane
Concen: 43.088 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 85 Resp: 412859

Ion	Ratio	Lower	Upper
85	100		
87	33.9	16.0	47.9



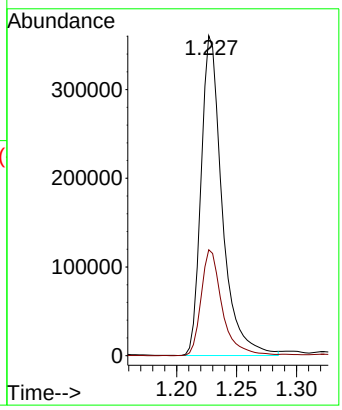


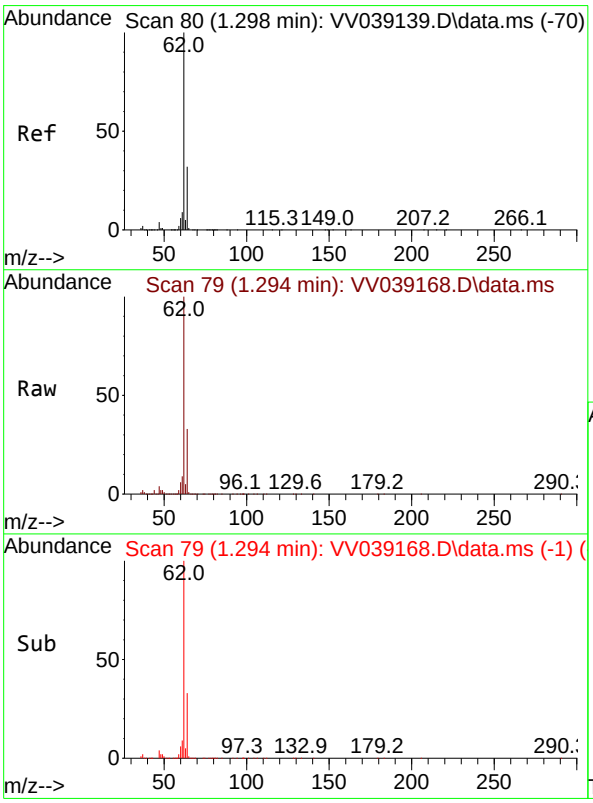
#3
Chloromethane
Concen: 42.924 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 441526

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.0	39.0

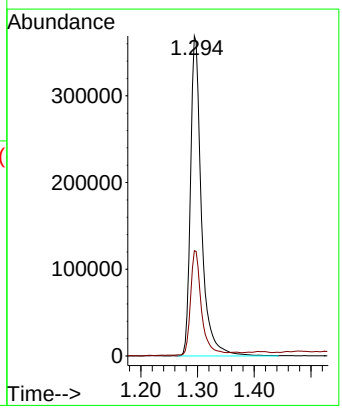


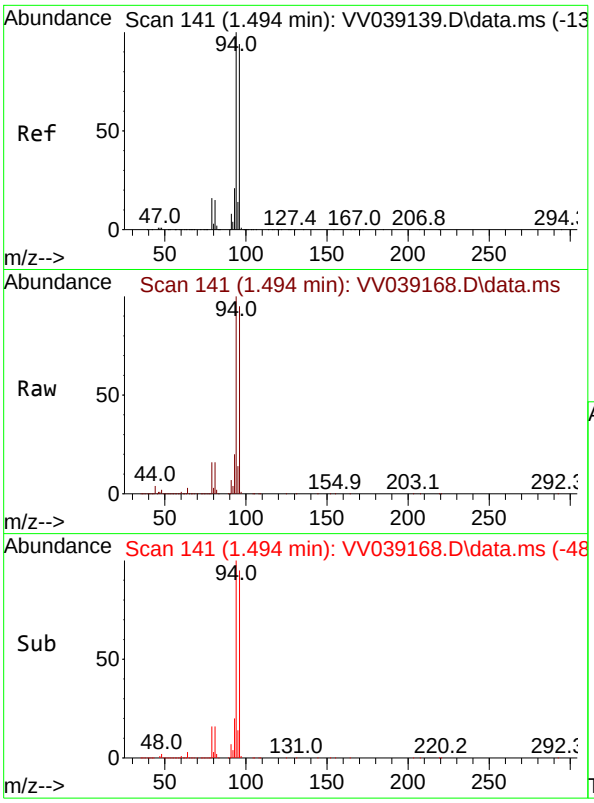


#4
Vinyl Chloride
Concen: 45.040 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 62 Resp: 495985

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.6	38.4



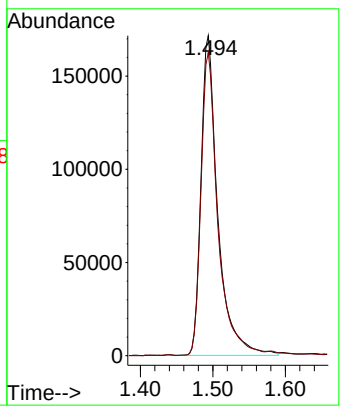


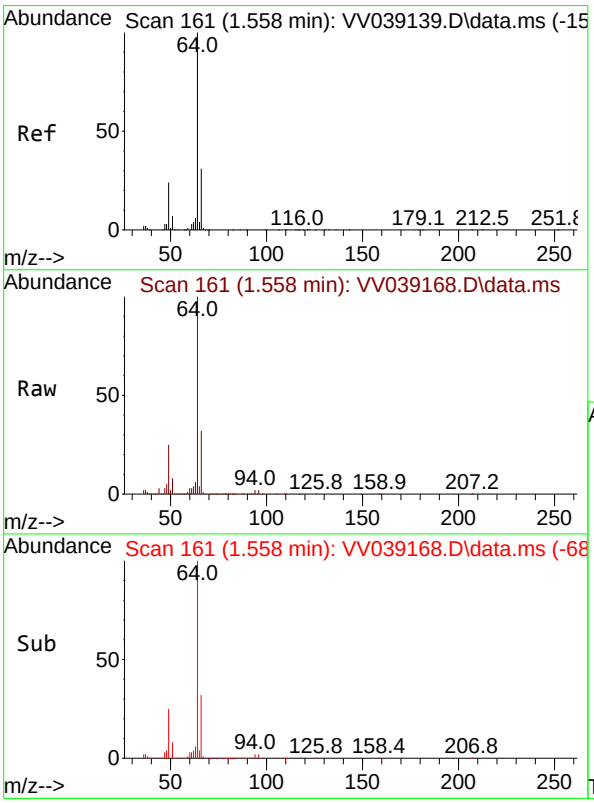
#5
Bromomethane
Concen: 39.912 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 277073

Ion	Ratio	Lower	Upper
94	100		
96	94.7	74.9	112.3

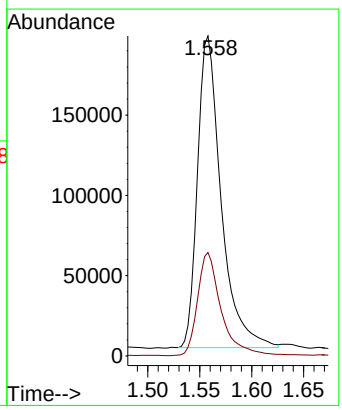


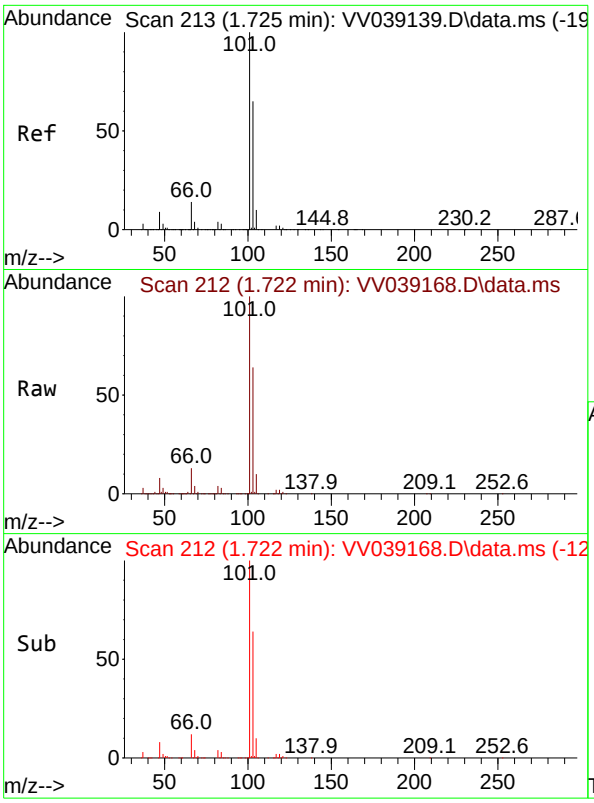


#6
Chloroethane
Concen: 47.163 ug/l
RT: 1.558 min Scan# 161
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 64 Resp: 307095

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	36.8



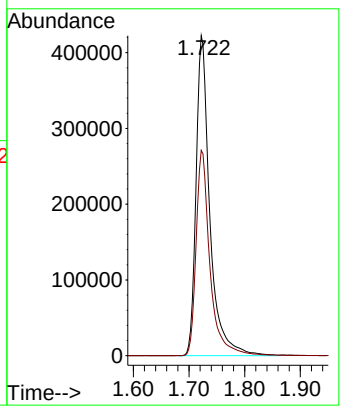


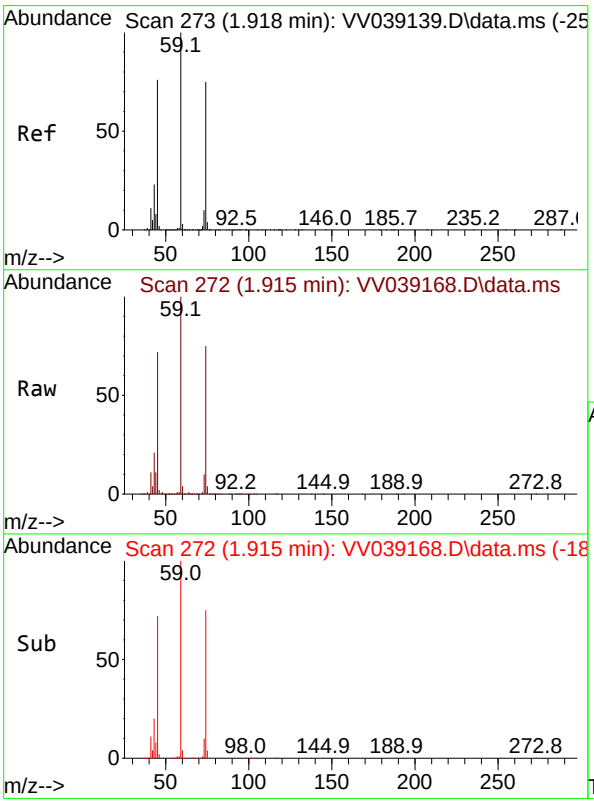
#7
Trichlorofluoromethane
Concen: 45.520 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 725756

Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.0	78.0

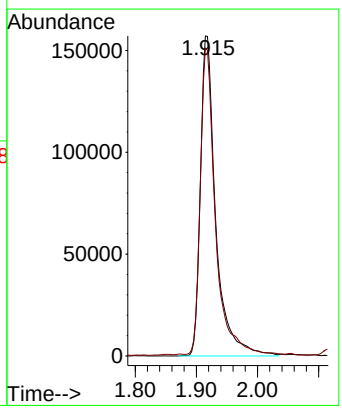


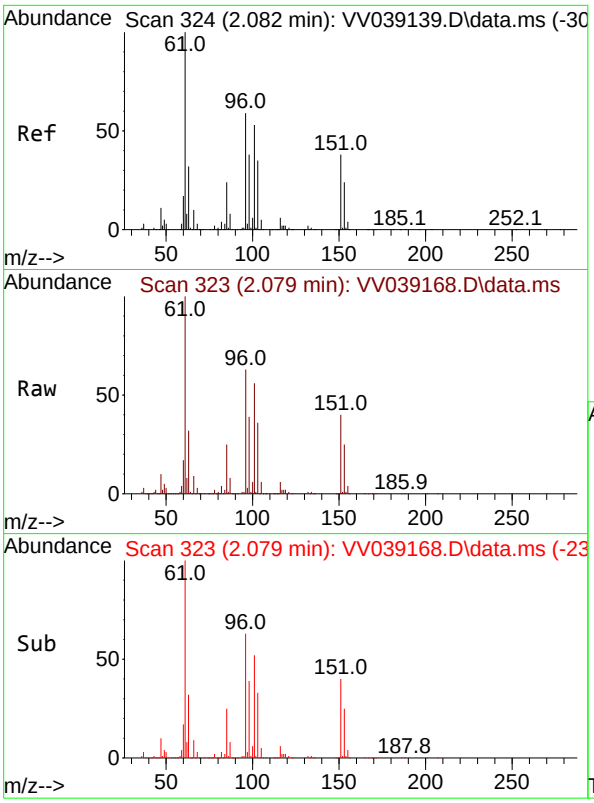


#8
Diethyl Ether
Concen: 46.259 ug/l
RT: 1.915 min Scan# 272
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 74 Resp: 273800

Ion	Ratio	Lower	Upper
74	100		
45	93.9	49.6	148.8



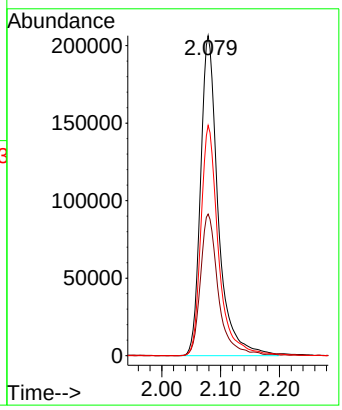


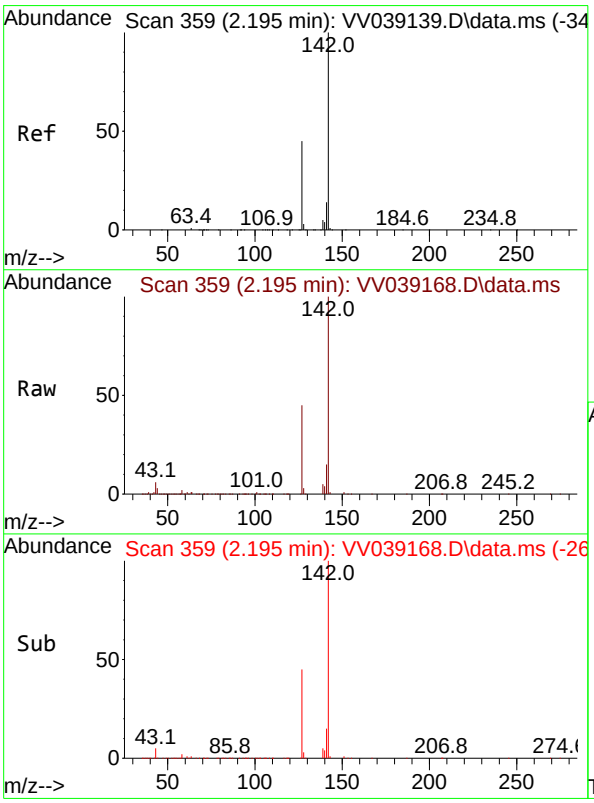
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.275 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 429502

Ion	Ratio	Lower	Upper
101	100		
85	44.8	36.2	54.2
151	72.4	56.3	84.5

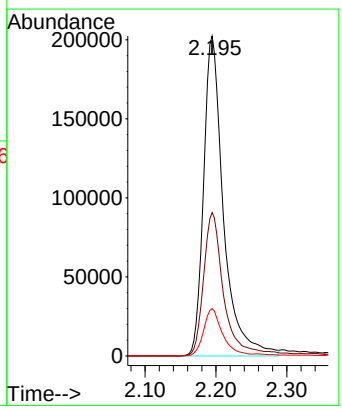


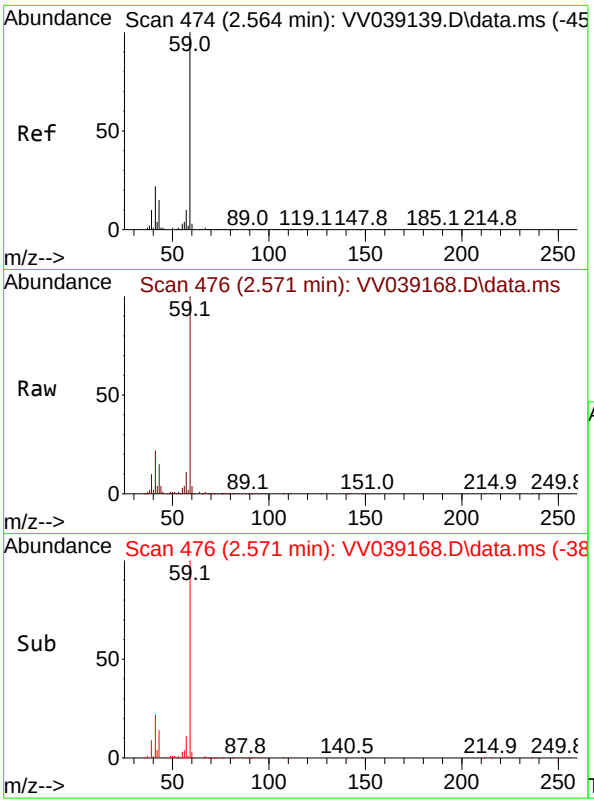


#10
Methyl Iodide
Concen: 43.640 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:142 Resp: 394240

Ion	Ratio	Lower	Upper
142	100		
127	46.0	36.3	54.5
141	14.1	11.2	16.8



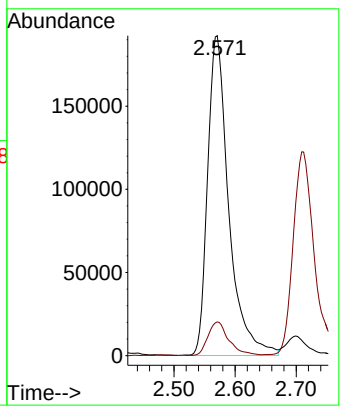


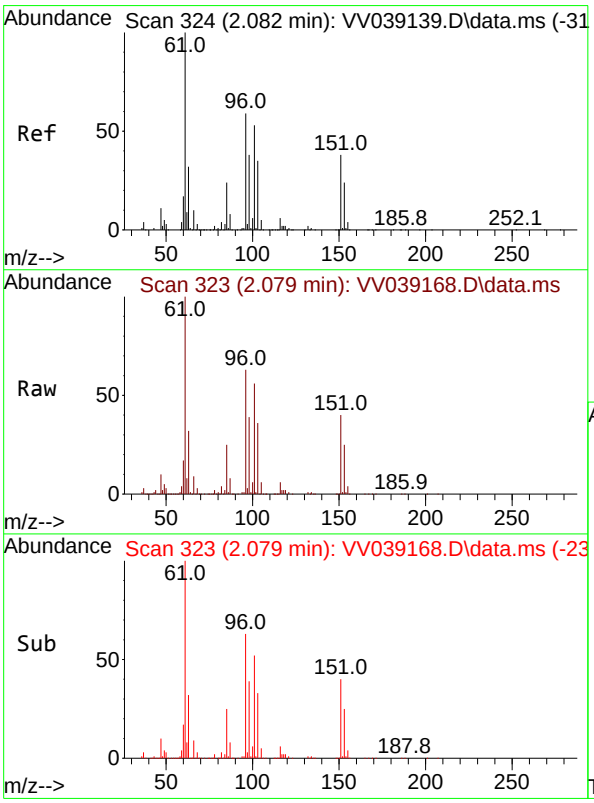
#11
Tert butyl alcohol
Concen: 249.596 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 462139

Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8

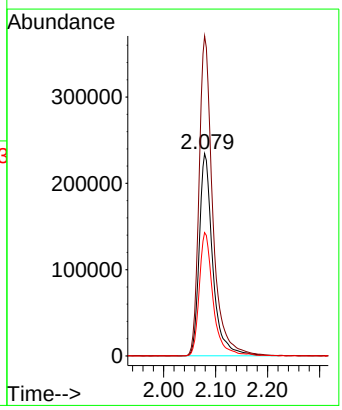


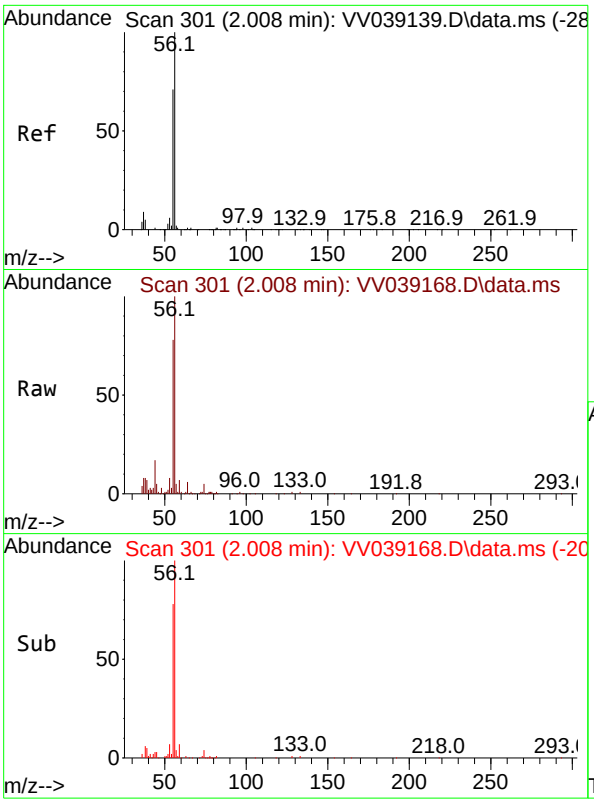


#12
1,1-Dichloroethene
Concen: 46.283 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 96 Resp: 422387

Ion	Ratio	Lower	Upper
96	100		
61	158.1	136.0	204.0
98	61.0	51.0	76.6



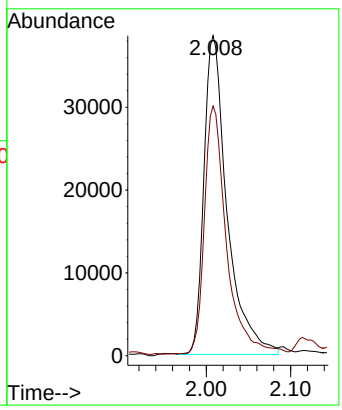


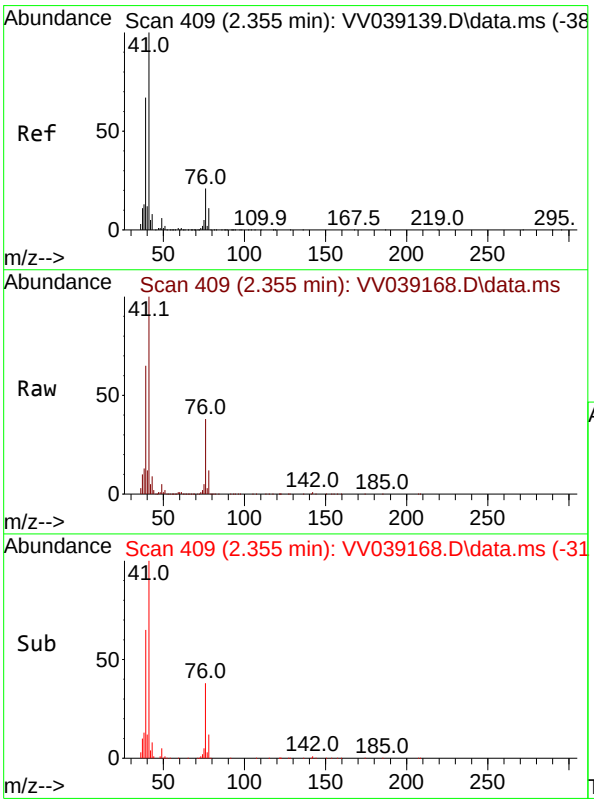
#13
Acrolein
Concen: 229.786 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 73826

Ion	Ratio	Lower	Upper
56	100		
55	73.5	56.2	84.4

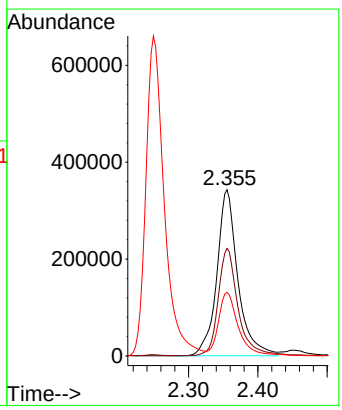


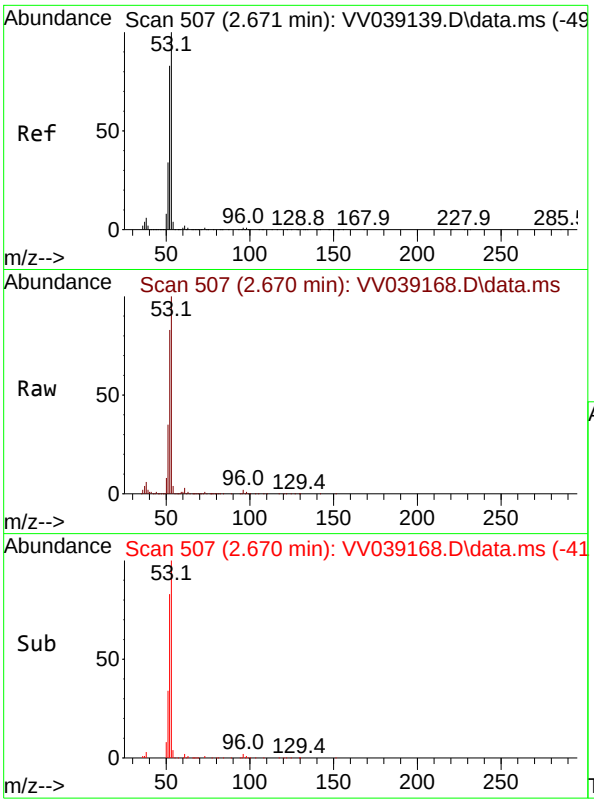


#14
Allyl chloride
Concen: 44.523 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 41 Resp: 725818

Ion	Ratio	Lower	Upper
41	100		
39	60.8	51.0	76.6
76	36.3	28.2	42.4



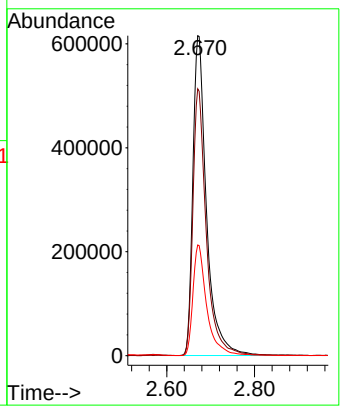


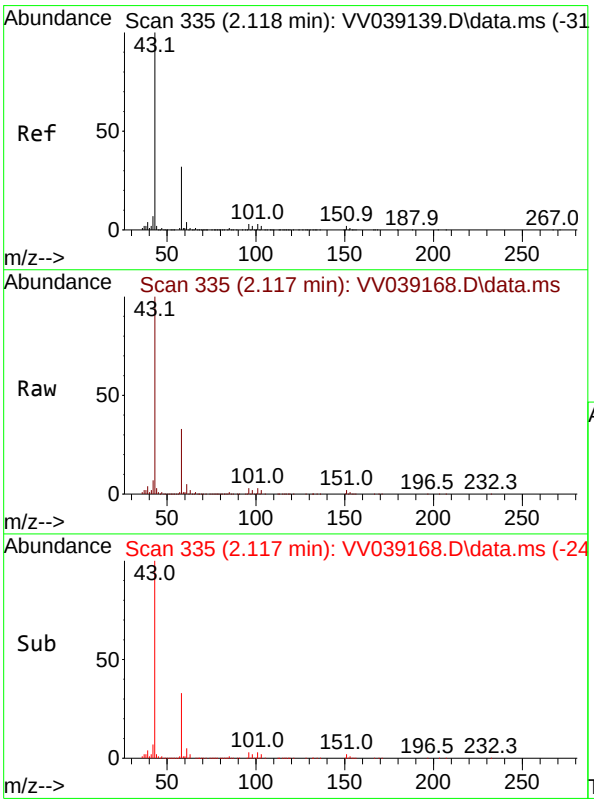
#15
Acrylonitrile
Concen: 223.829 ug/l
RT: 2.670 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 1328524

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.1	99.1
51	35.1	28.5	42.7

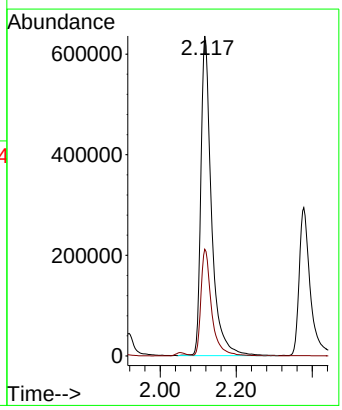


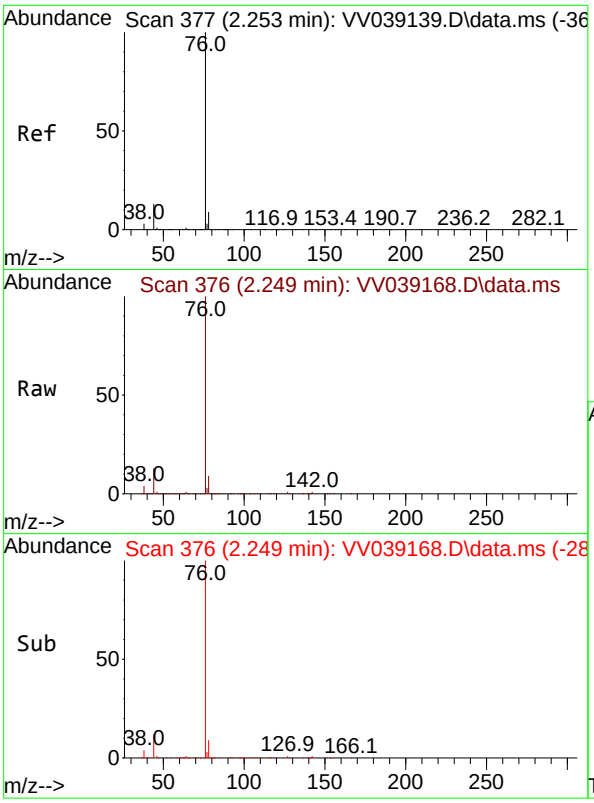


#16
Acetone
Concen: 224.844 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 43 Resp: 1227421

Ion	Ratio	Lower	Upper
43	100		
58	33.3	25.8	38.6



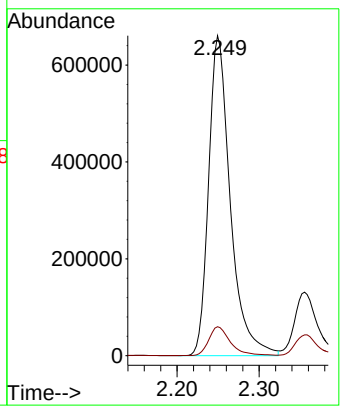


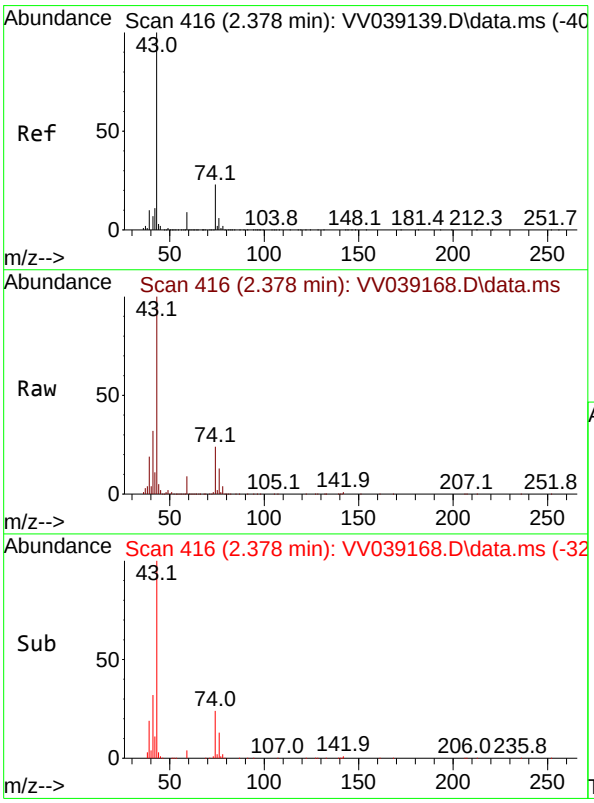
#17
Carbon Disulfide
Concen: 43.464 ug/l
RT: 2.249 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 1213128

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

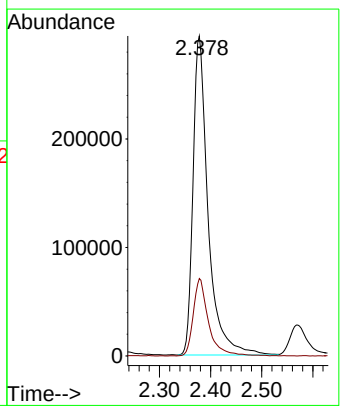


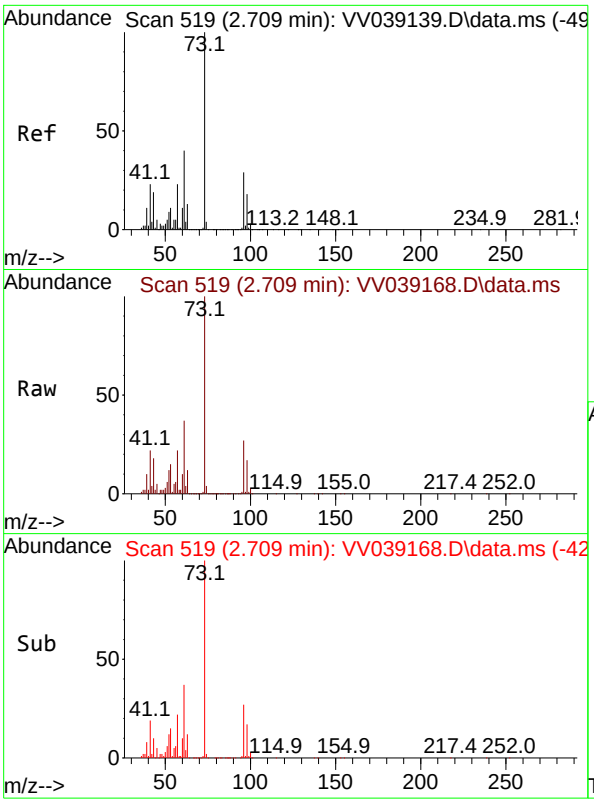


#18
Methyl Acetate
Concen: 46.408 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 43 Resp: 602375

Ion	Ratio	Lower	Upper
43	100		
74	24.6	18.6	27.8



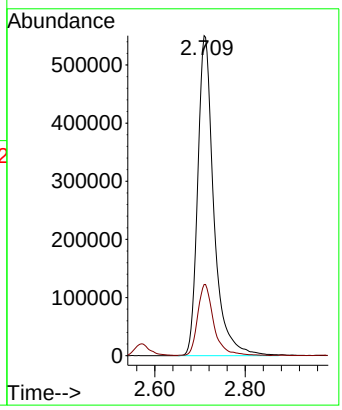


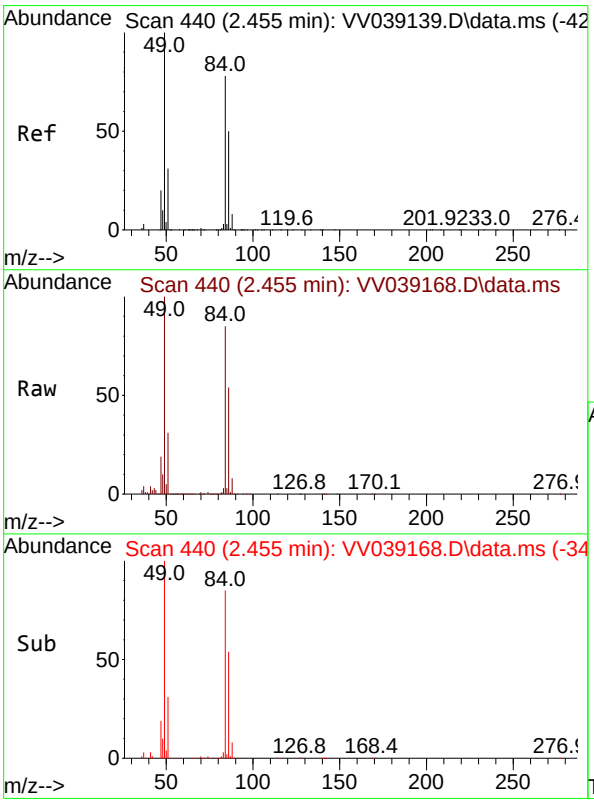
#19
Methyl tert-butyl Ether
Concen: 46.768 ug/l
RT: 2.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 1360066

Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.2	27.4

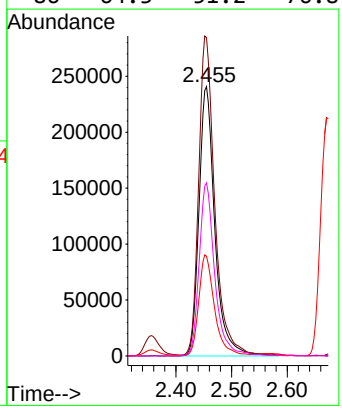


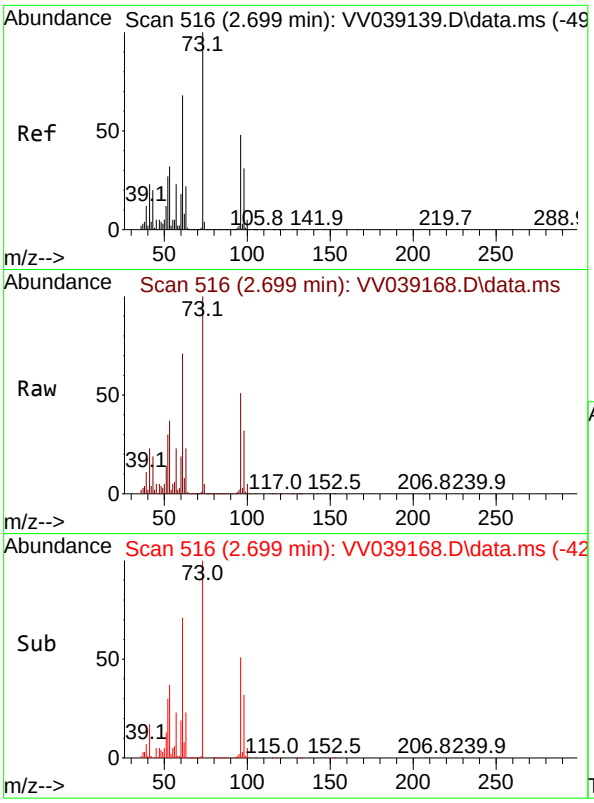


#20
Methylene Chloride
Concen: 50.438 ug/l
RT: 2.455 min Scan# 440
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 84 Resp: 477153

Ion	Ratio	Lower	Upper
84	100		
49	117.8	102.8	154.2
51	36.7	31.9	47.9
86	64.3	51.2	76.8



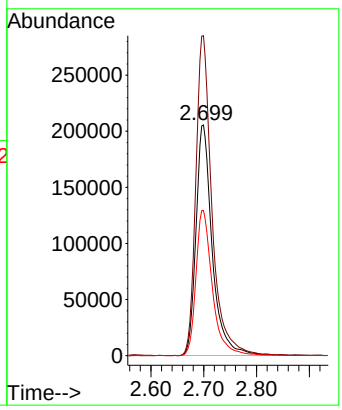


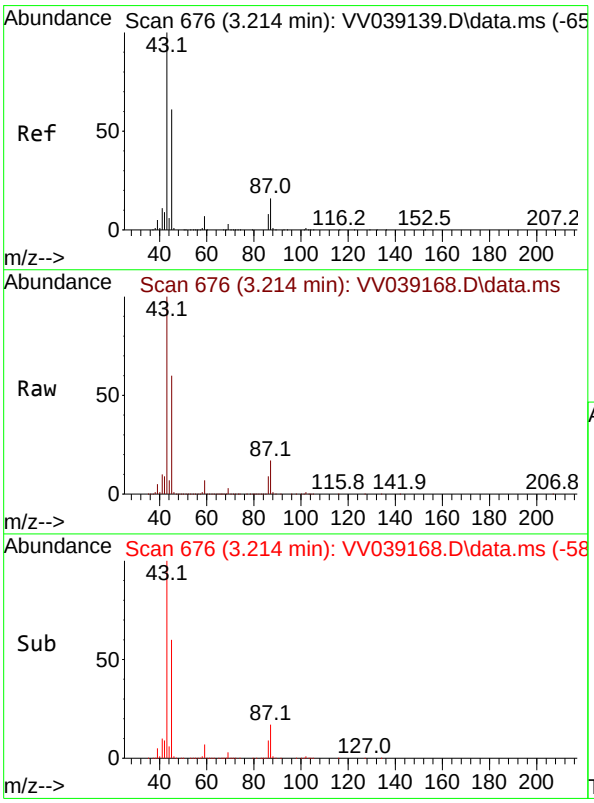
#21
trans-1,2-Dichloroethene
Concen: 45.131 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 438480

Ion	Ratio	Lower	Upper
96	100		
61	138.8	112.8	169.2
98	63.0	51.1	76.7

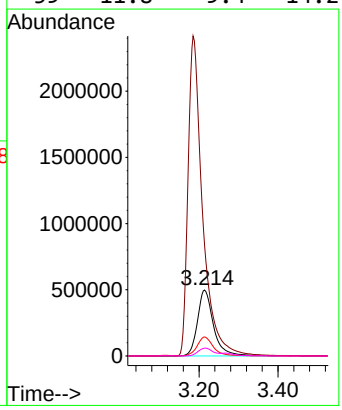


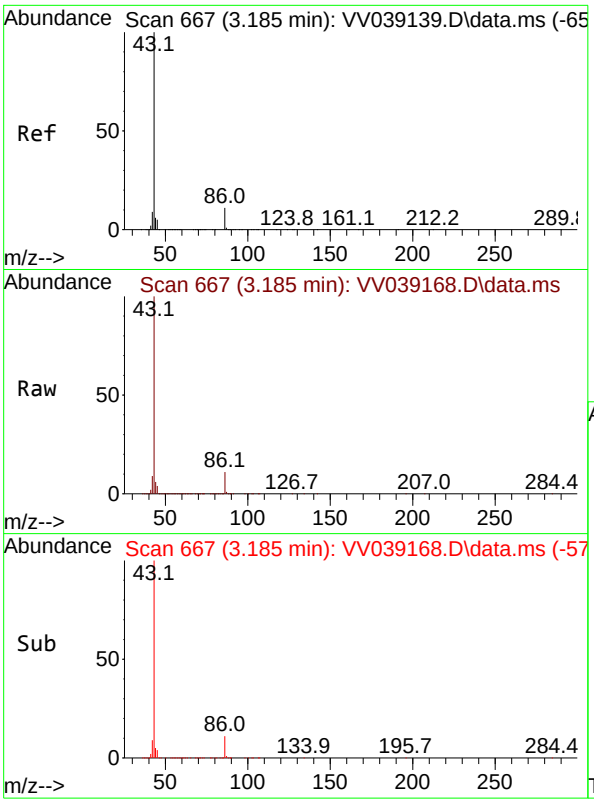


#22
Diisopropyl ether
Concen: 44.947 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 45 Resp: 1401924

Ion	Ratio	Lower	Upper
45	100		
43	167.4	130.9	196.3
87	29.0	21.1	31.7
59	11.8	9.4	14.2



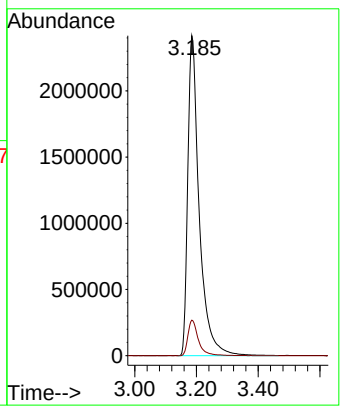


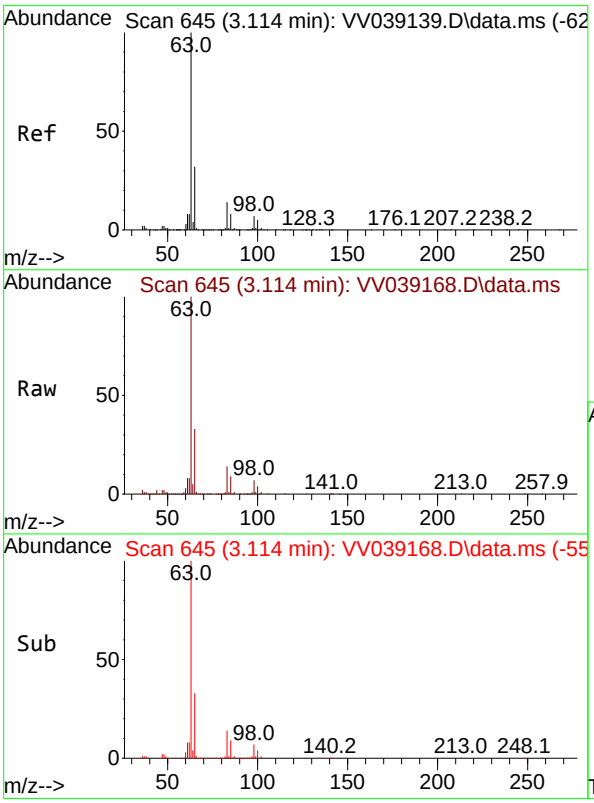
#23
Vinyl Acetate
Concen: 228.109 ug/l
RT: 3.185 min Scan# 6
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 6223966

Ion	Ratio	Lower	Upper
43	100		
86	11.1	8.4	12.6

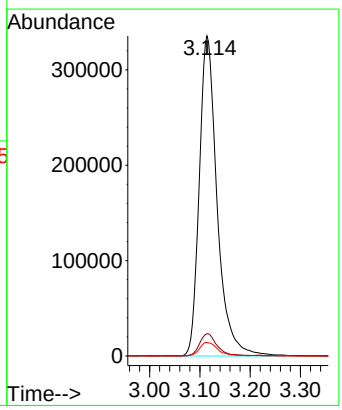


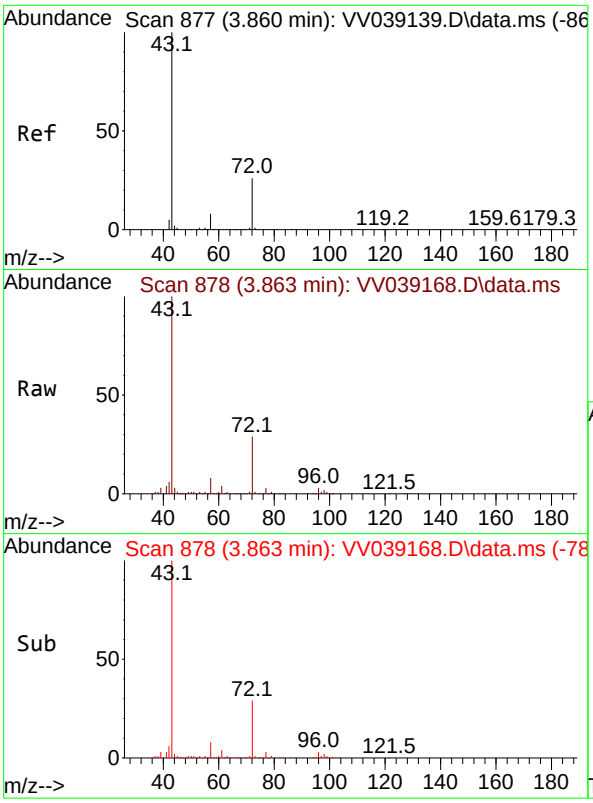


#24
1,1-Dichloroethane
Concen: 43.389 ug/l
RT: 3.114 min Scan# 645
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 63 Resp: 827604

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.4	10.2
100	4.2	2.2	6.6



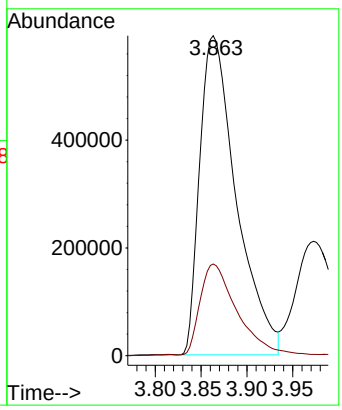


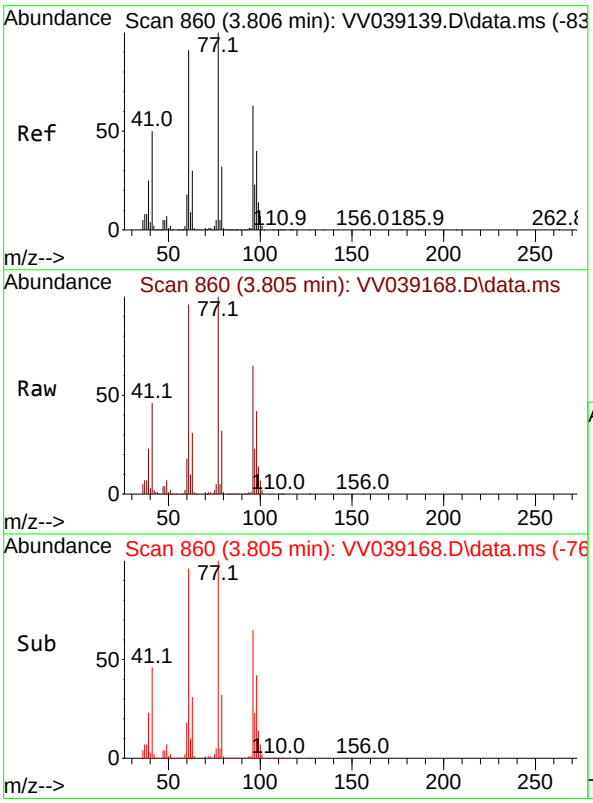
#25
2-Butanone
Concen: 234.849 ug/l
RT: 3.863 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1647490

Ion	Ratio	Lower	Upper
43	100		
72	28.4	21.0	31.6

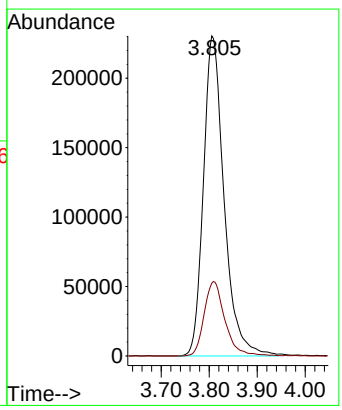


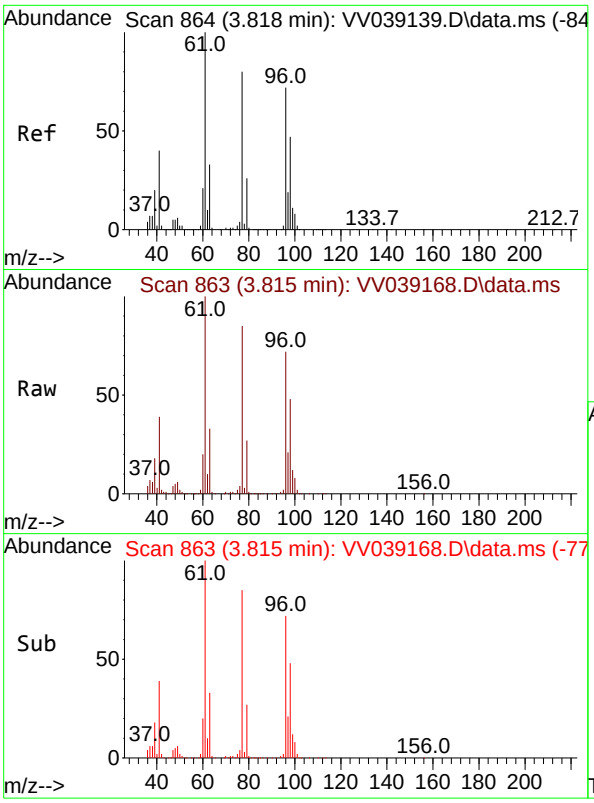


#26
2,2-Dichloropropane
Concen: 40.800 ug/l
RT: 3.805 min Scan# 860
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 77 Resp: 690029

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.7



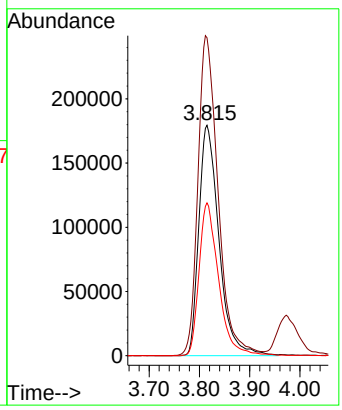


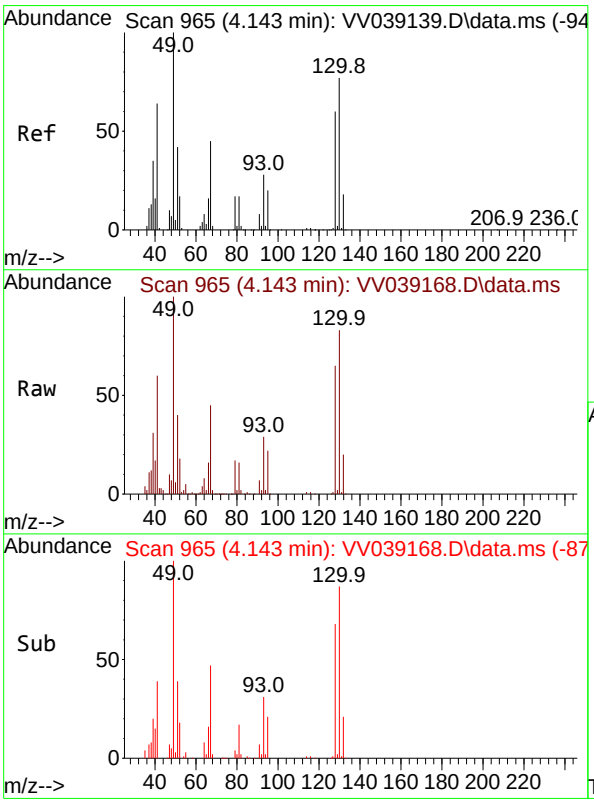
#27
cis-1,2-Dichloroethene
Concen: 46.579 ug/l
RT: 3.815 min Scan# 8
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 499109

Ion	Ratio	Lower	Upper
96	100		
61	139.3	0.0	286.4
98	64.0	0.0	126.6

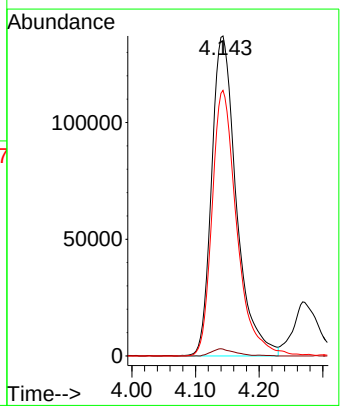


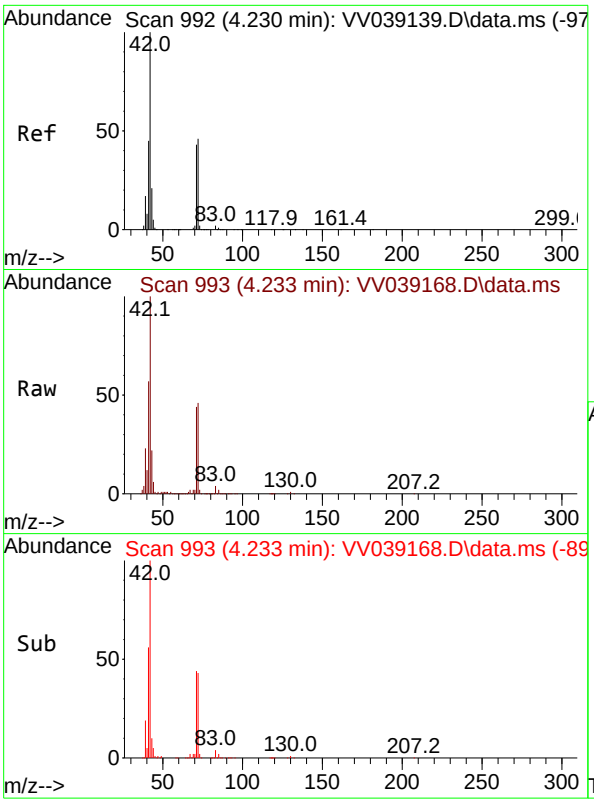


#28
Bromochloromethane
Concen: 44.019 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 49 Resp: 370658

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	82.8	60.2	90.2



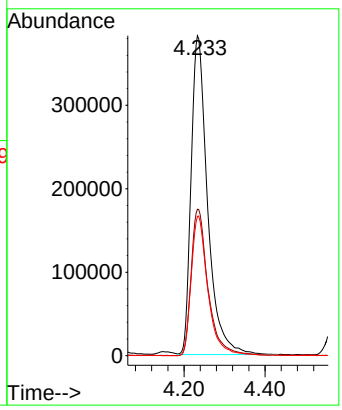


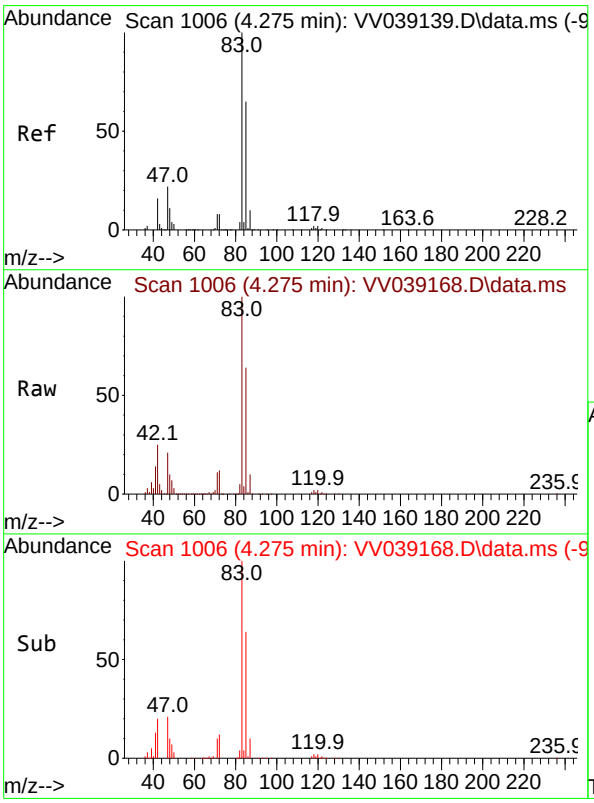
#29
Tetrahydrofuran
Concen: 244.856 ug/l
RT: 4.233 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 1075144

Ion	Ratio	Lower	Upper
42	100		
72	47.4	36.3	54.5
71	44.4	34.3	51.5

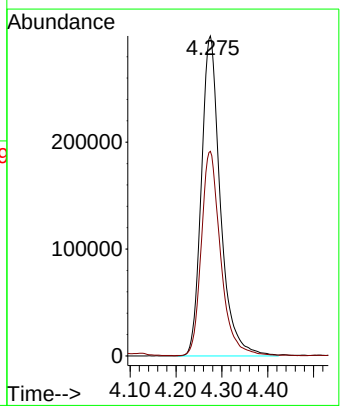


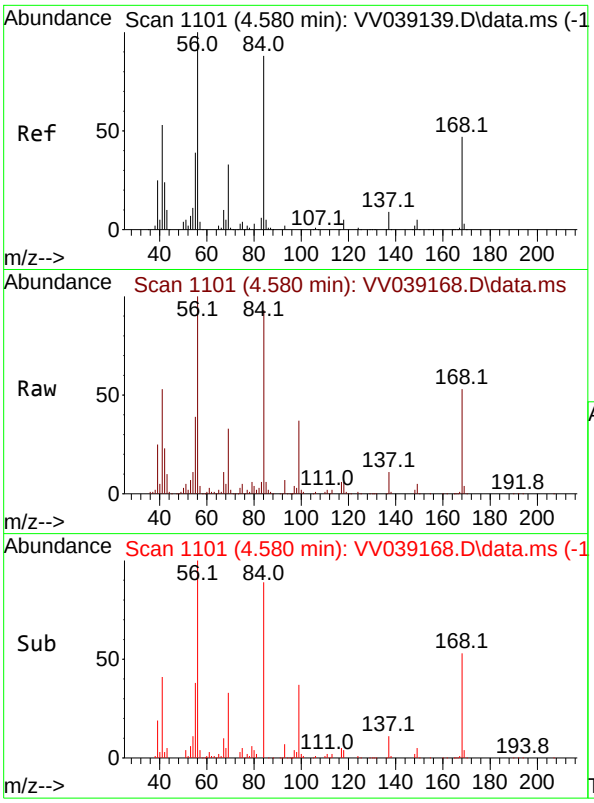


#30
Chloroform
Concen: 43.324 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 83 Resp: 862902

Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.1	78.1



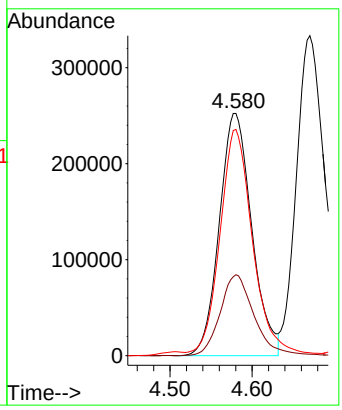


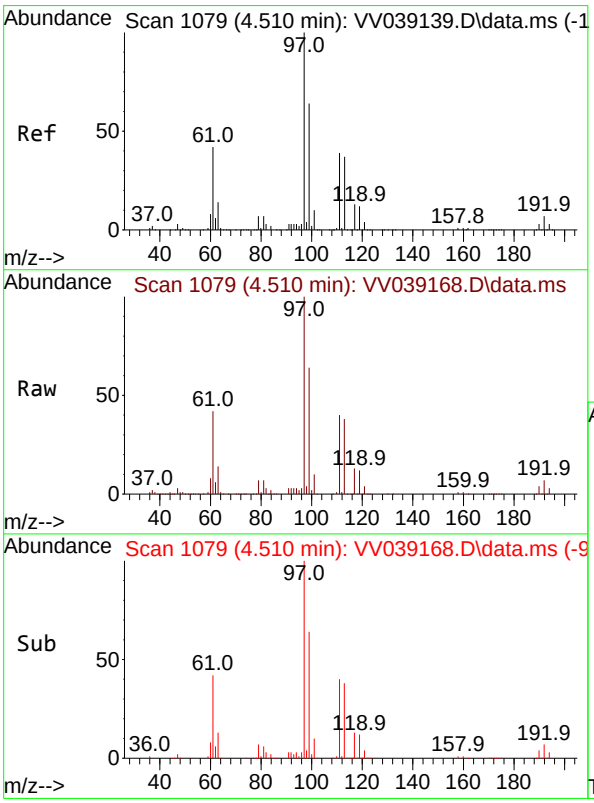
#31
Cyclohexane
Concen: 44.432 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 694256

Ion	Ratio	Lower	Upper
56	100		
69	33.4	26.2	39.2
84	91.8	70.3	105.5

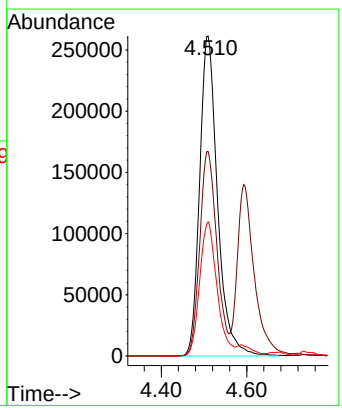


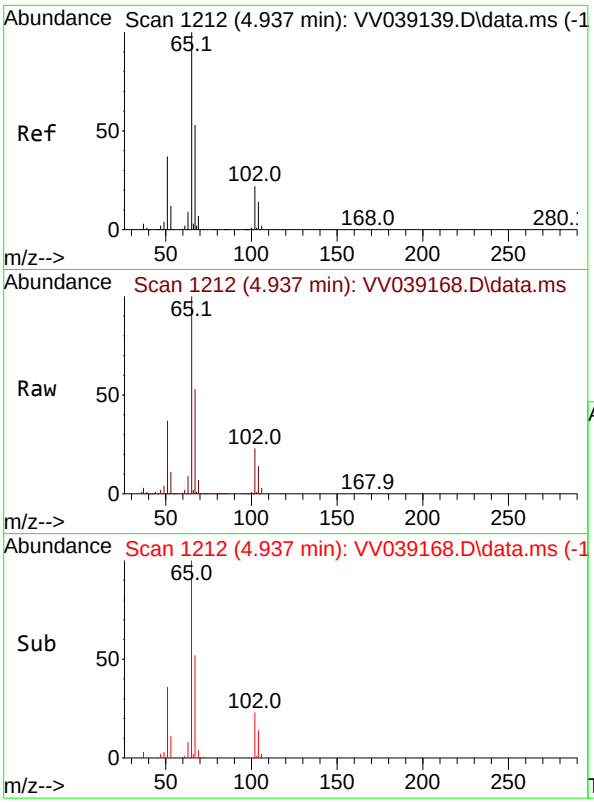


#32
1,1,1-Trichloroethane
Concen: 44.071 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 97 Resp: 759916

Ion	Ratio	Lower	Upper
97	100		
99	61.0	49.6	74.4
61	40.6	34.5	51.7



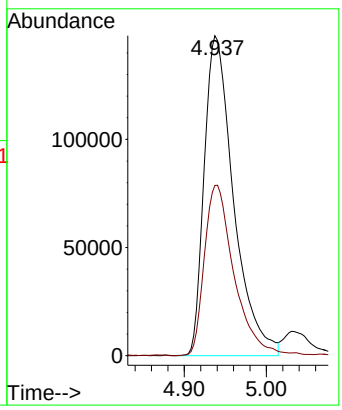


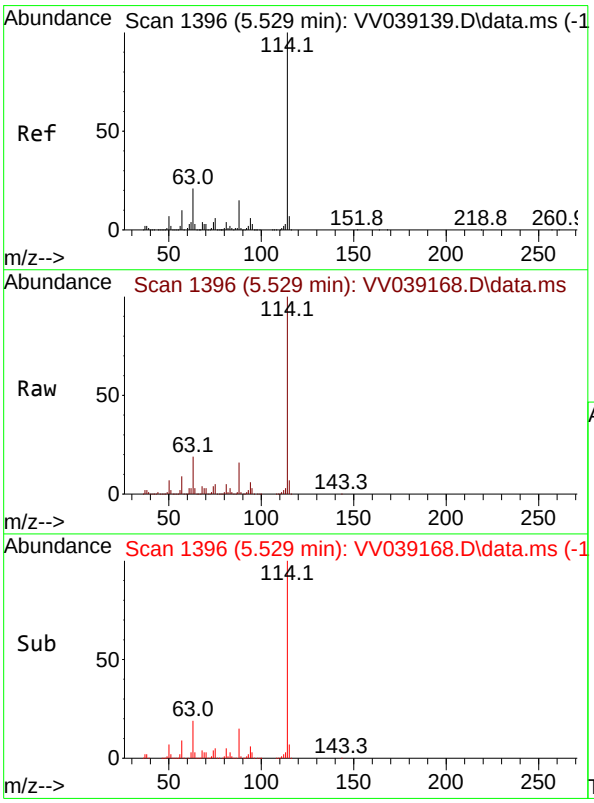
#33
1,2-Dichloroethane-d4
Concen: 42.102 ug/l
RT: 4.937 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 368829

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.0

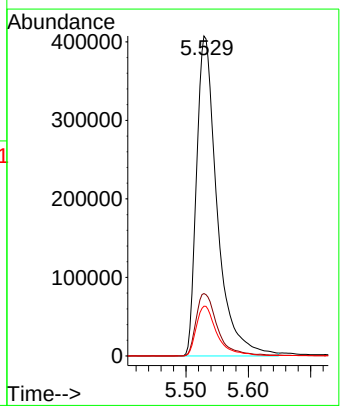


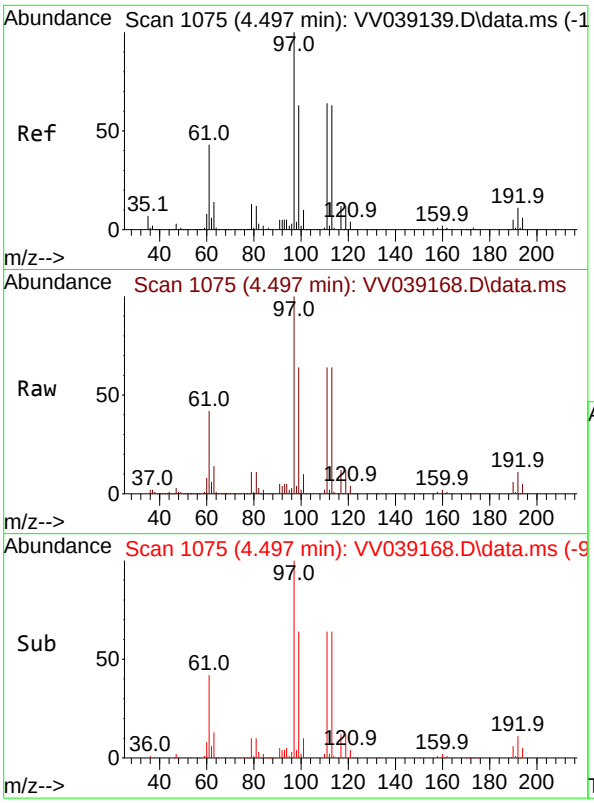


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:114 Resp: 933338

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.6
88	15.5	0.0	30.8



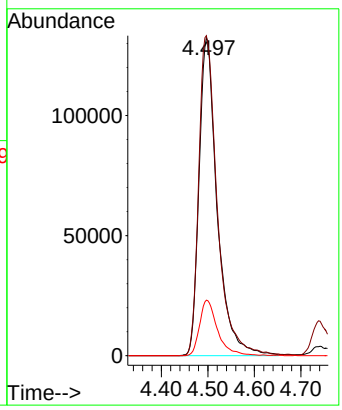


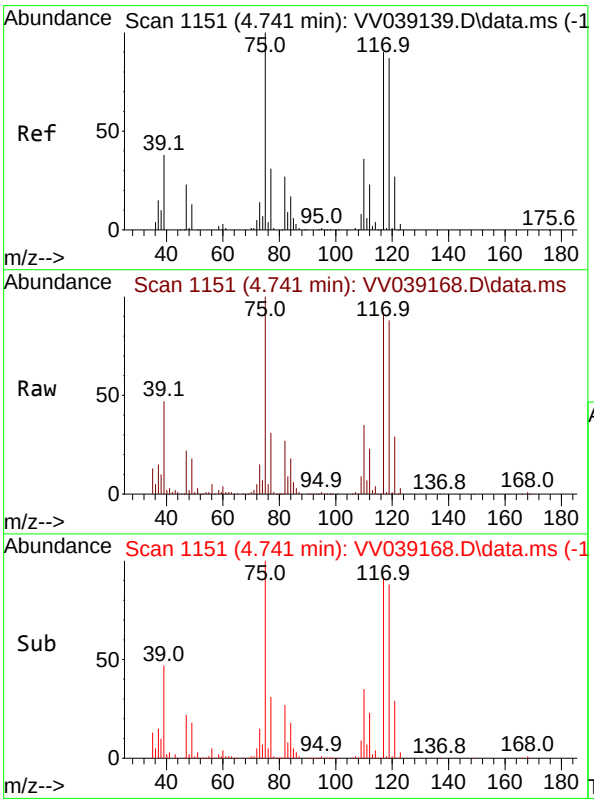
#35
Dibromofluoromethane
Concen: 47.826 ug/l
RT: 4.497 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 358851

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	17.3	13.8	20.8

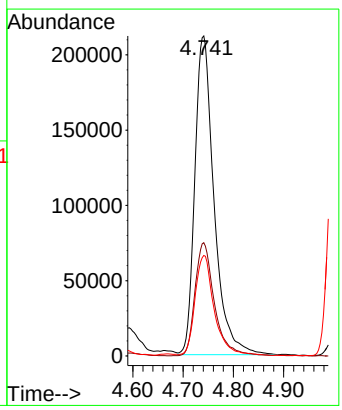


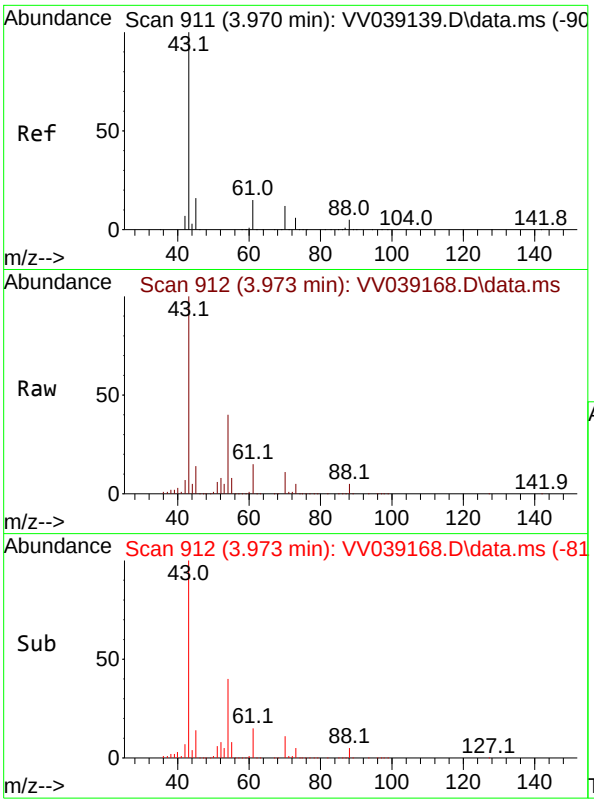


#36
1,1-Dichloropropene
Concen: 49.586 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 562517

Ion	Ratio	Lower	Upper
75	100		
110	35.7	18.1	54.1
77	31.4	24.8	37.2



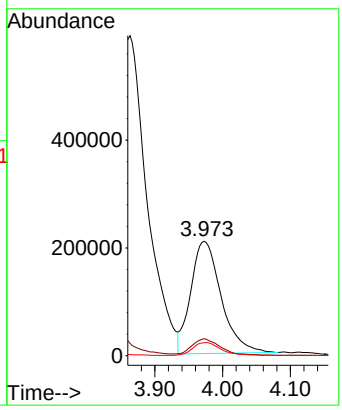


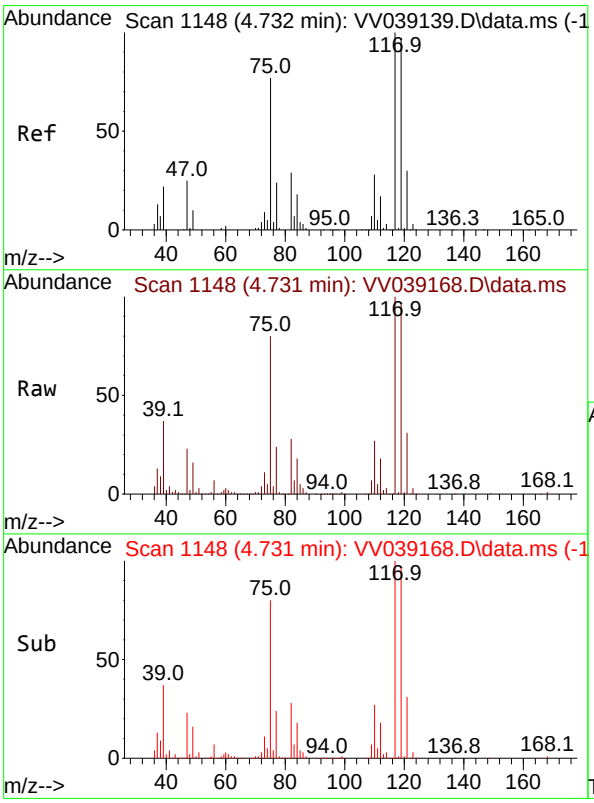
#37
Ethyl Acetate
Concen: 47.290 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 650966

Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.3	15.5
70	10.7	8.0	12.0

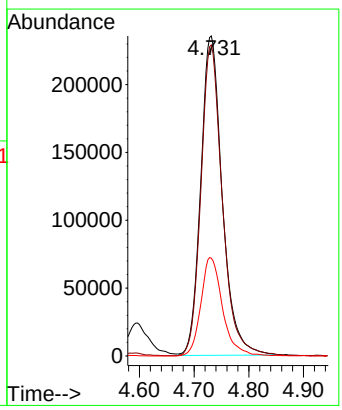


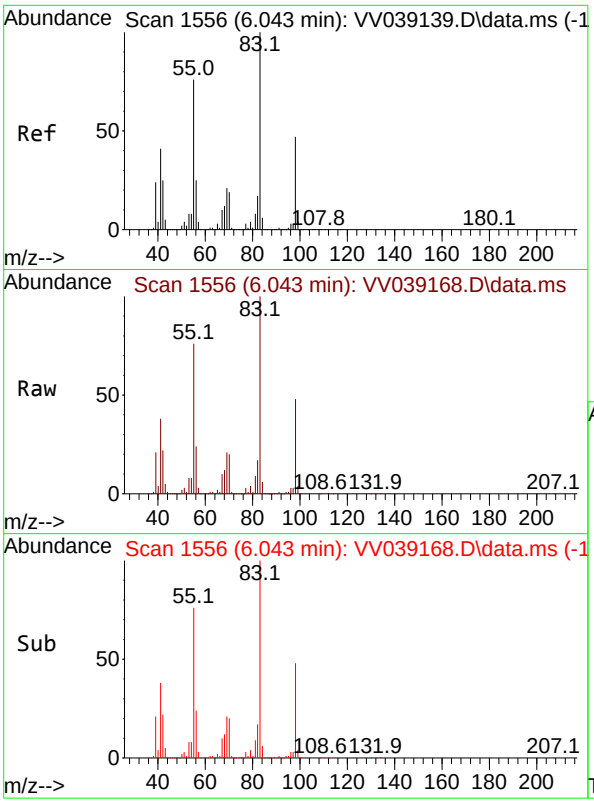


#38
Carbon Tetrachloride
Concen: 46.350 ug/l
RT: 4.731 min Scan# 1148
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:117 Resp: 642615

Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.2	115.8
121	30.6	24.2	36.2



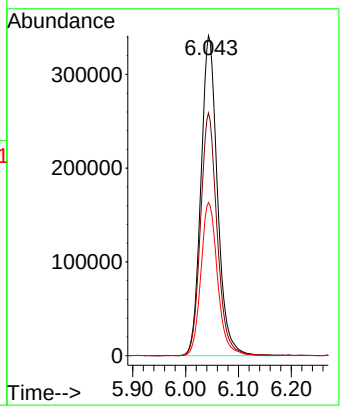


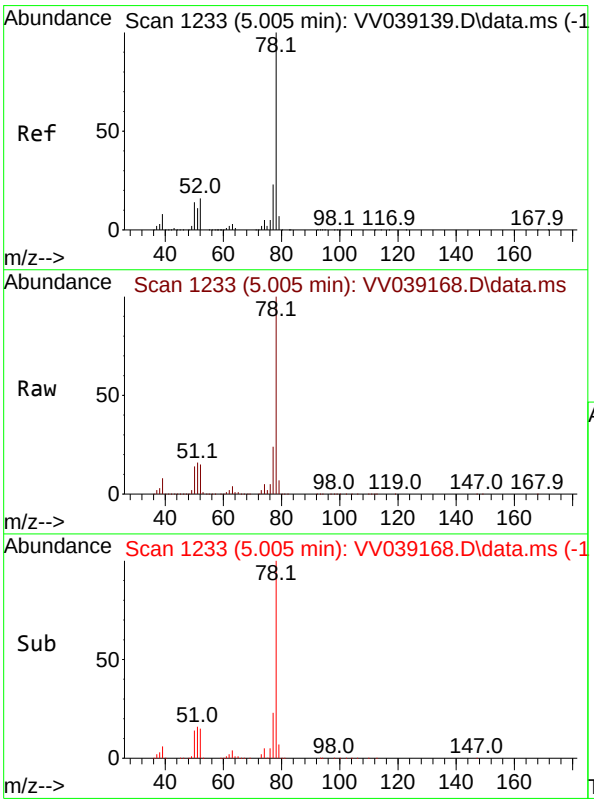
#39
Methylcyclohexane
Concen: 54.277 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 743575

Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.5	90.7
98	47.9	37.8	56.6

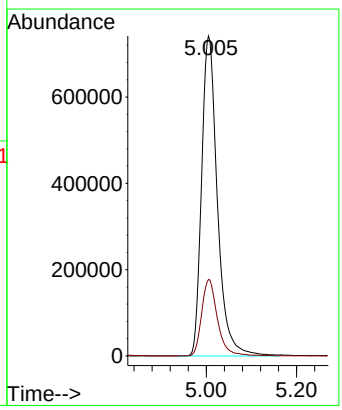


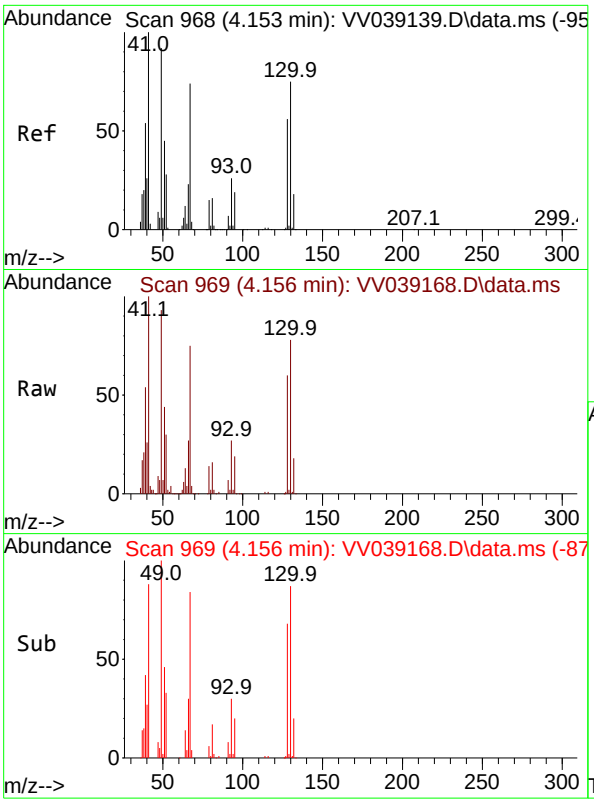


#40
Benzene
Concen: 48.671 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 78 Resp: 1797939

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.7	28.1



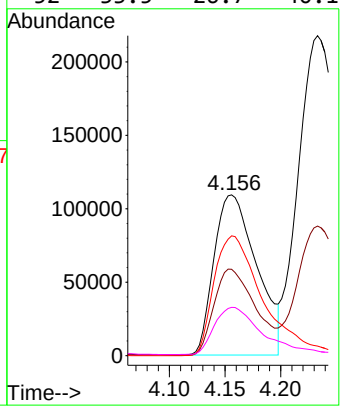


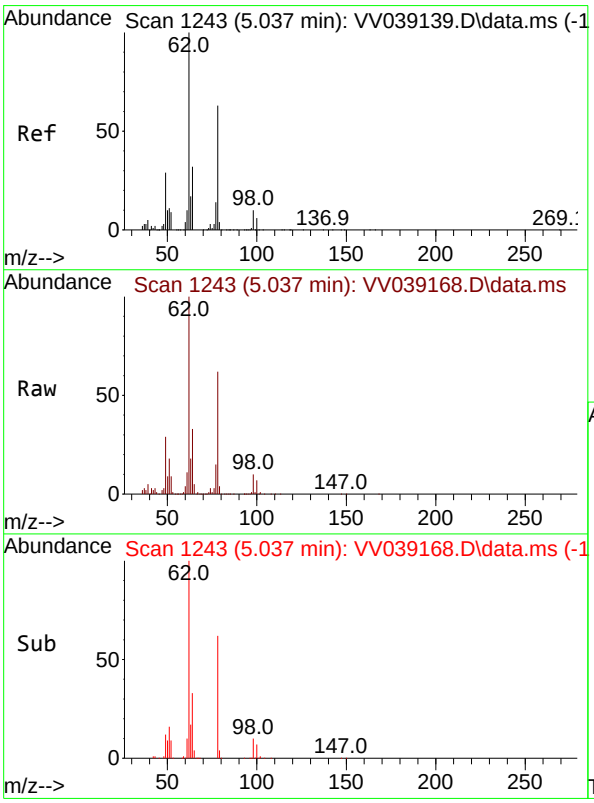
#41
Methacrylonitrile
Concen: 47.017 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 291884

Ion	Ratio	Lower	Upper
41	100		
39	51.3	42.2	63.2
67	87.7	67.9	101.9
52	33.5	26.7	40.1

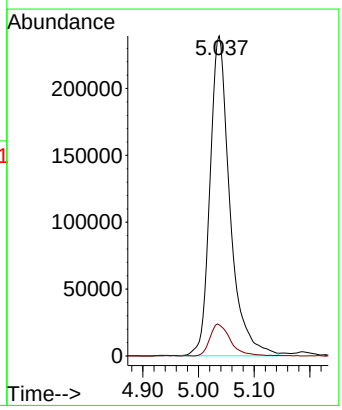


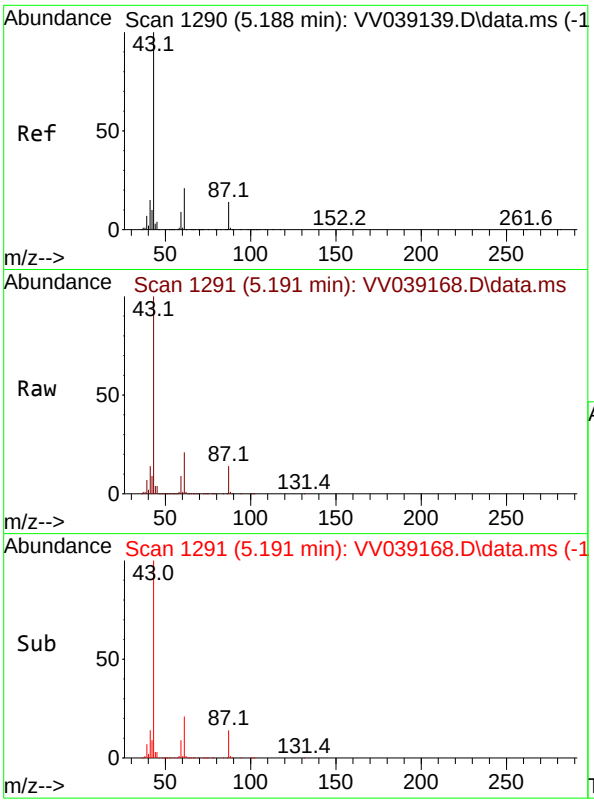


#42
1,2-Dichloroethane
Concen: 46.050 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 62 Resp: 596048

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	19.2



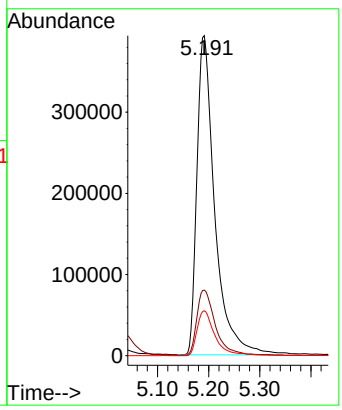


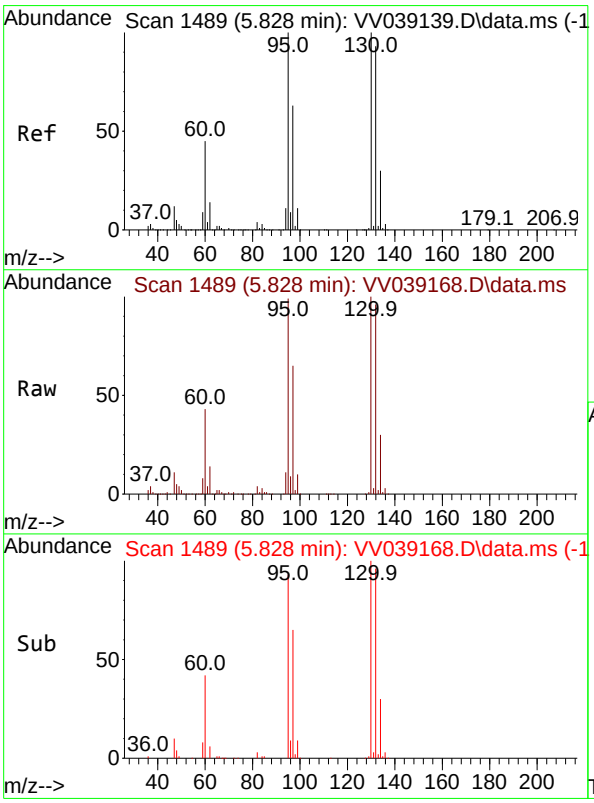
#43
Isopropyl Acetate
Concen: 50.848 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 954350

Ion	Ratio	Lower	Upper
43	100		
61	21.0	15.9	23.9
87	14.3	11.0	16.6

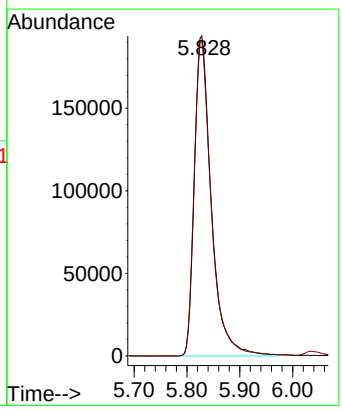


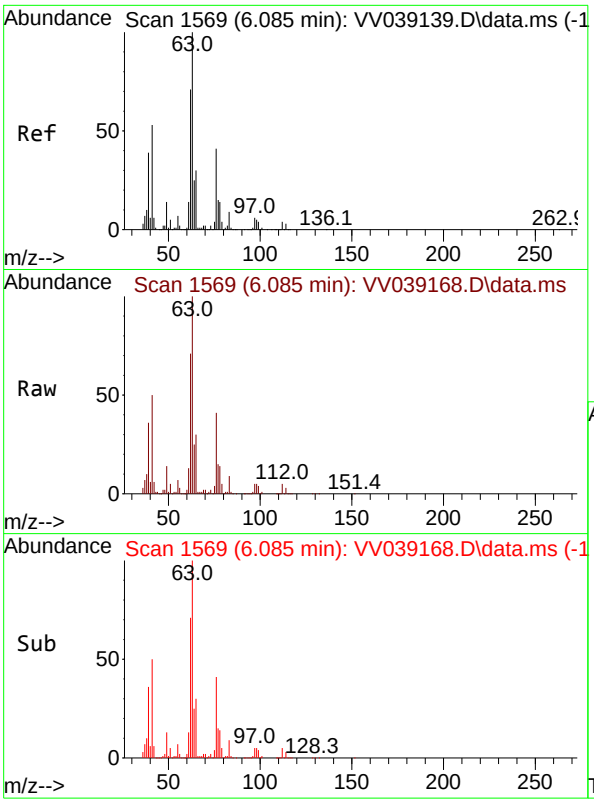


#44
Trichloroethene
Concen: 50.680 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:130 Resp: 432014

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	199.2



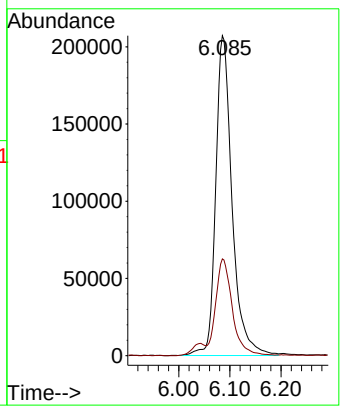


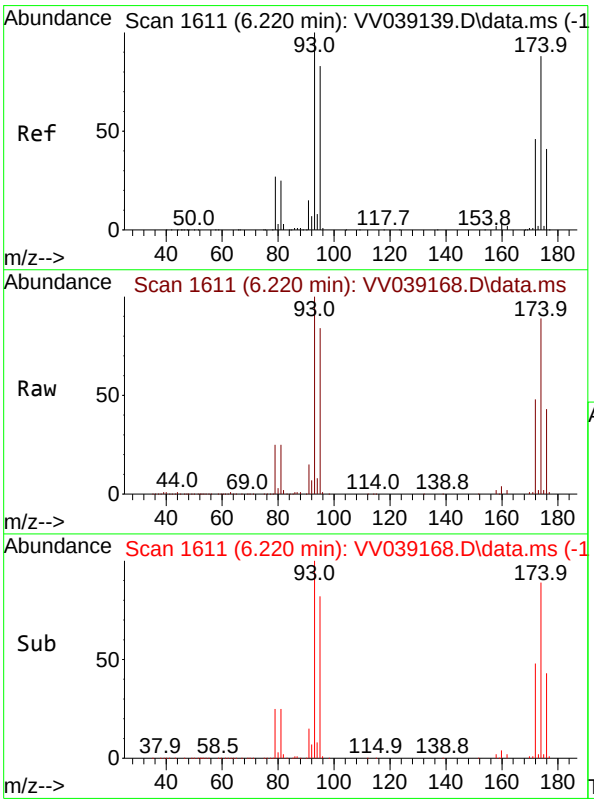
#45
1,2-Dichloropropane
Concen: 50.088 ug/l
RT: 6.085 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 459902

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.7	35.5

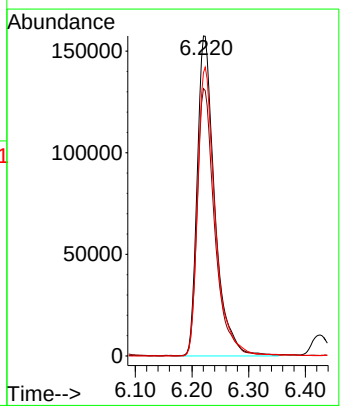


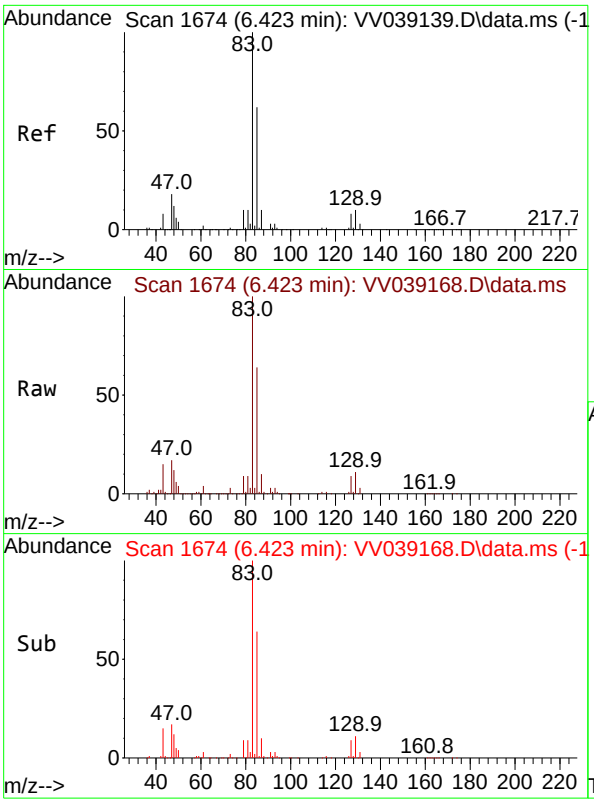


#46
Dibromomethane
Concen: 48.059 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 93 Resp: 337738

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	90.5	69.0	103.4



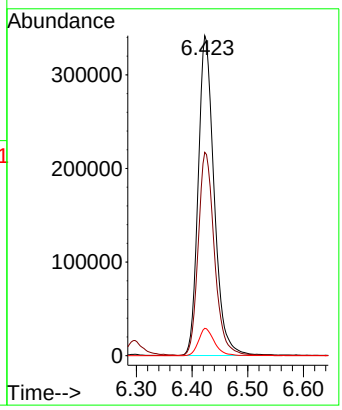


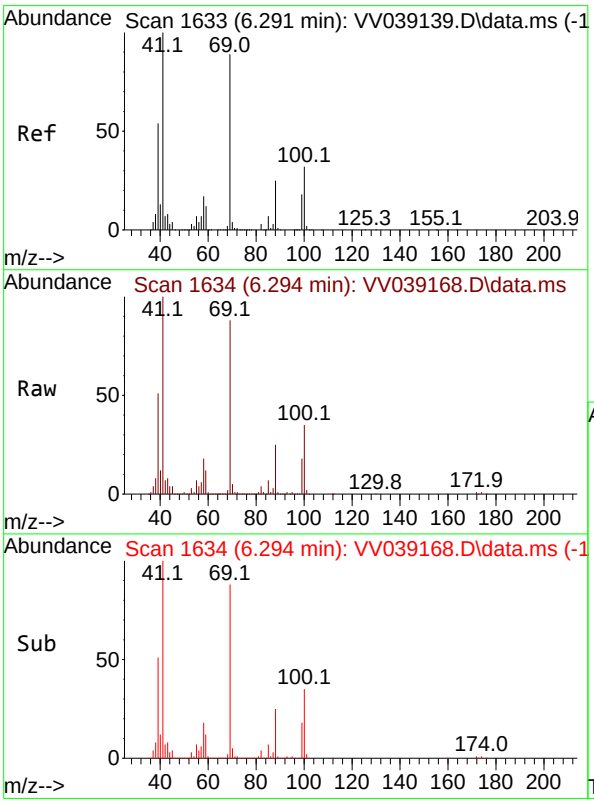
#47
Bromodichloromethane
Concen: 46.843 ug/l
RT: 6.423 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 680557

Ion	Ratio	Lower	Upper
83	100		
85	63.5	49.7	74.5
127	8.6	6.6	9.8

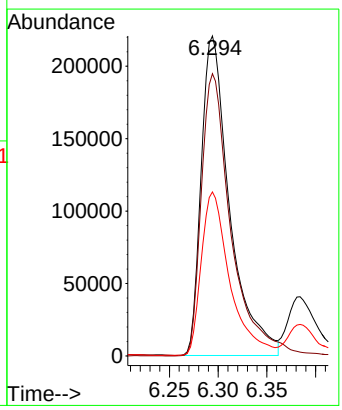


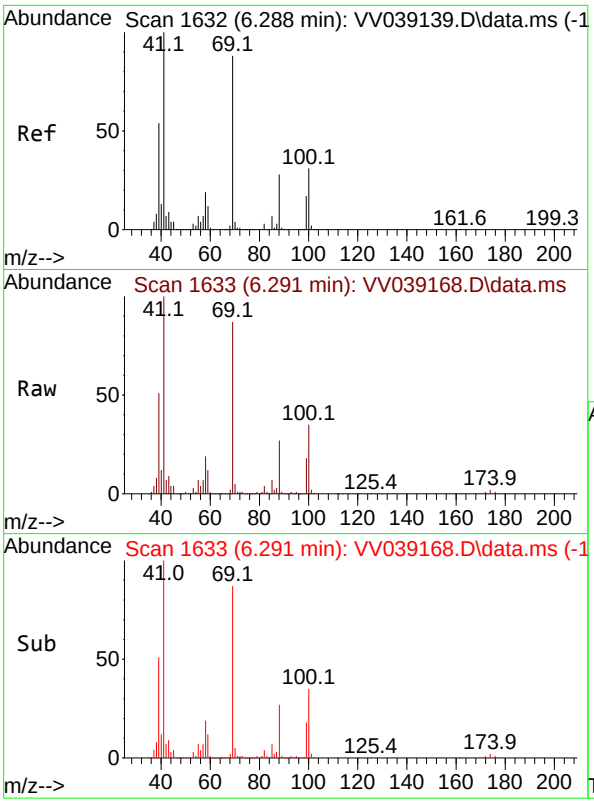


#48
Methyl methacrylate
Concen: 52.825 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 41 Resp: 449431

Ion	Ratio	Lower	Upper
41	100		
69	92.6	72.4	108.6
39	51.0	42.5	63.7



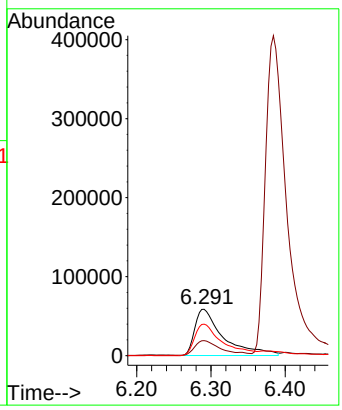


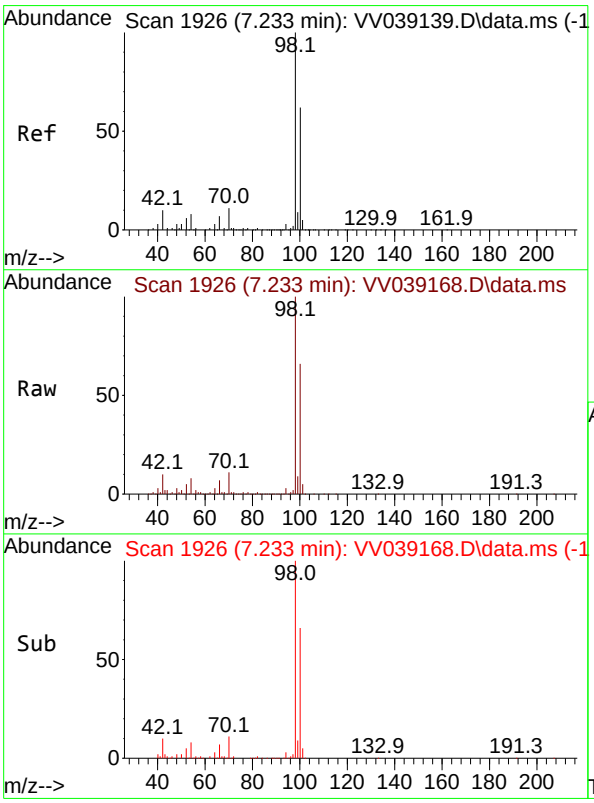
#49
1,4-Dioxane
Concen: 1135.751 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 155938

Ion	Ratio	Lower	Upper
88	100		
43	27.0	25.1	37.7
58	66.4	53.6	80.4

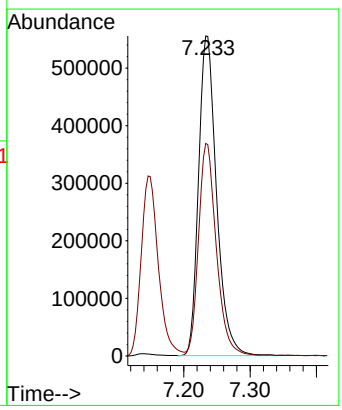


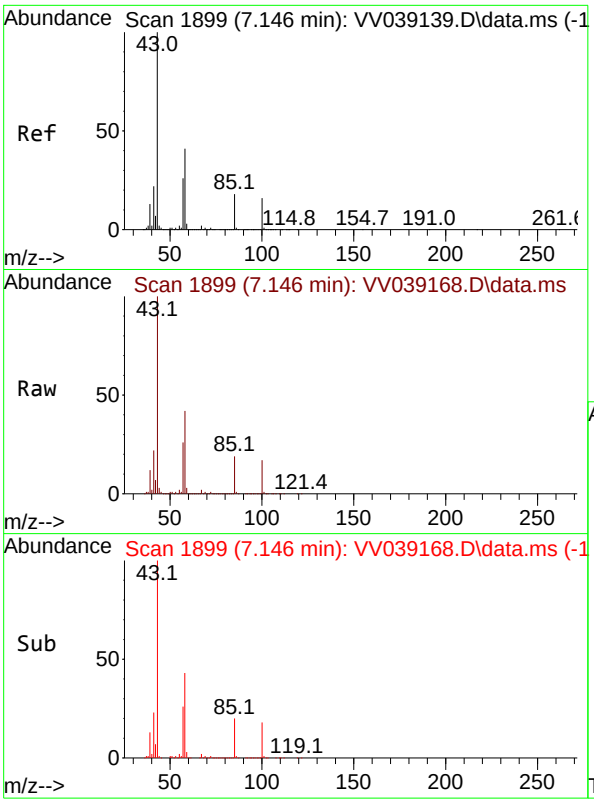


#50
Toluene-d8
Concen: 47.485 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 98 Resp: 1046447

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.2	78.2



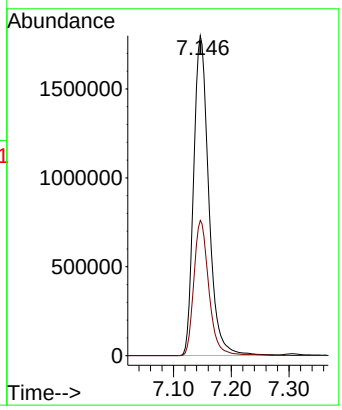


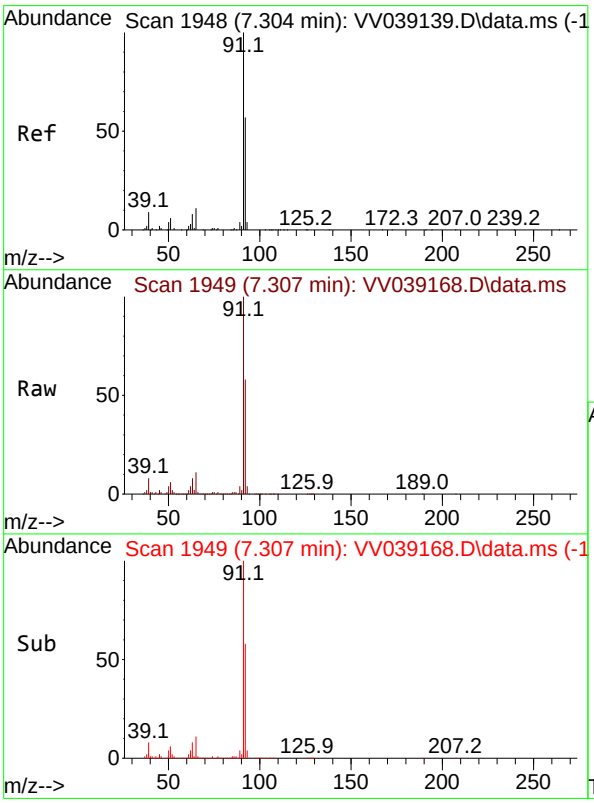
#51
4-Methyl-2-Pentanone
Concen: 265.177 ug/l
RT: 7.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 3274291

Ion	Ratio	Lower	Upper
43	100		
58	41.6	32.3	48.5

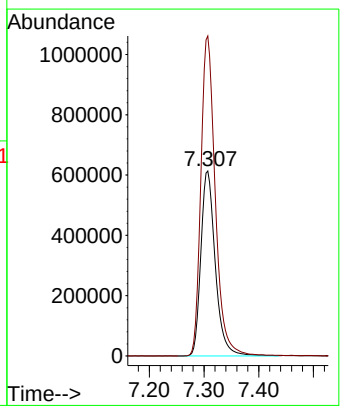


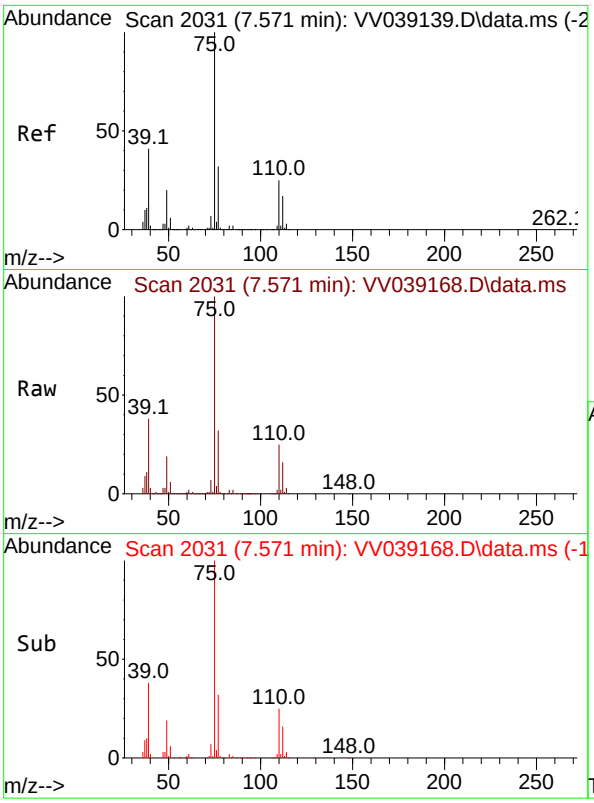


#52
Toluene
Concen: 52.474 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 92 Resp: 1123906

Ion	Ratio	Lower	Upper
92	100		
91	173.1	139.2	208.8



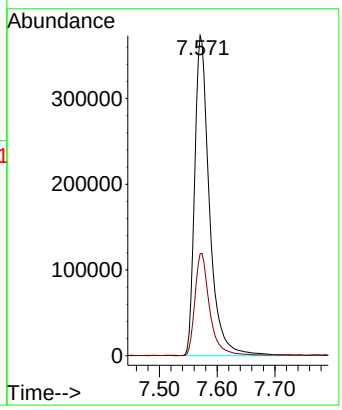


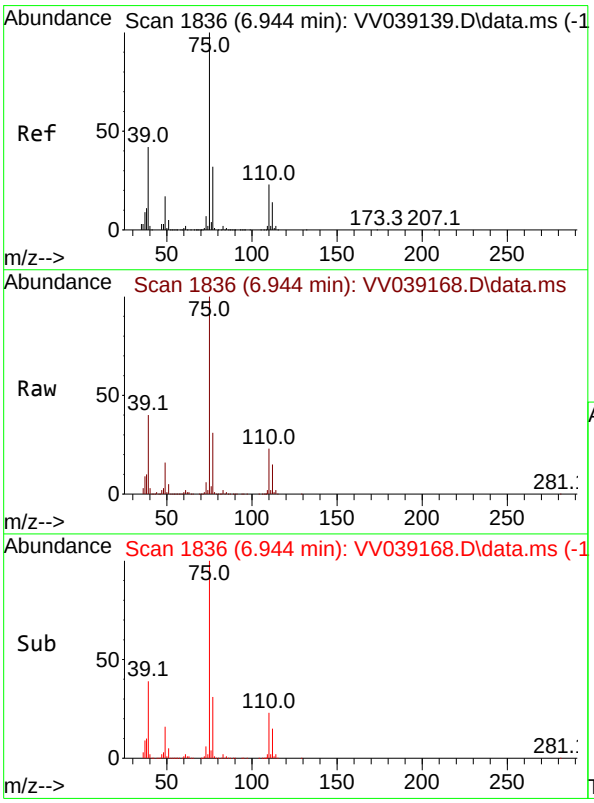
#53
t-1,3-Dichloropropene
Concen: 52.243 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 661472

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.9	38.9

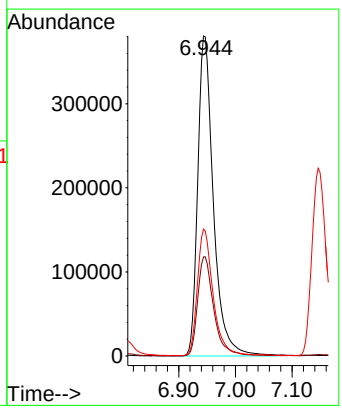


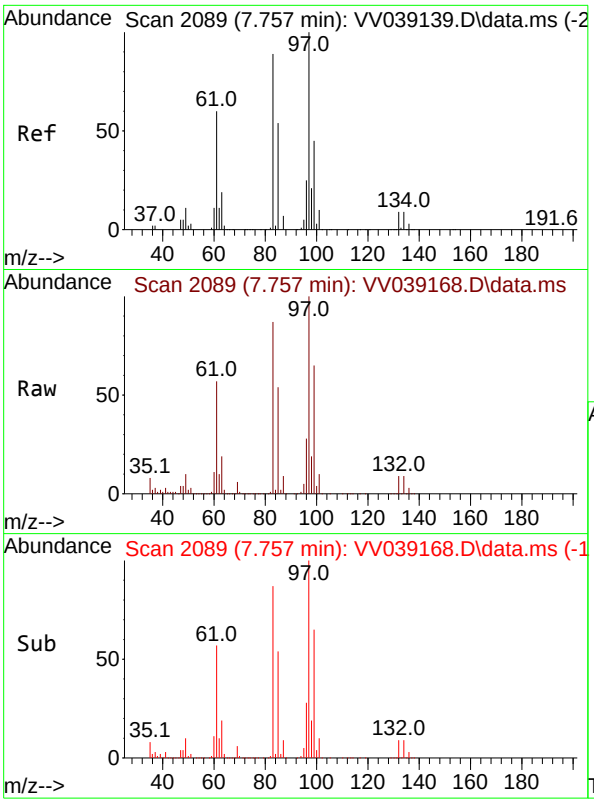


#54
cis-1,3-Dichloropropene
Concen: 52.312 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 731190

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.5	38.3
39	39.6	33.8	50.6



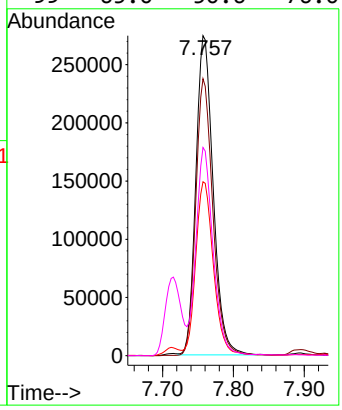


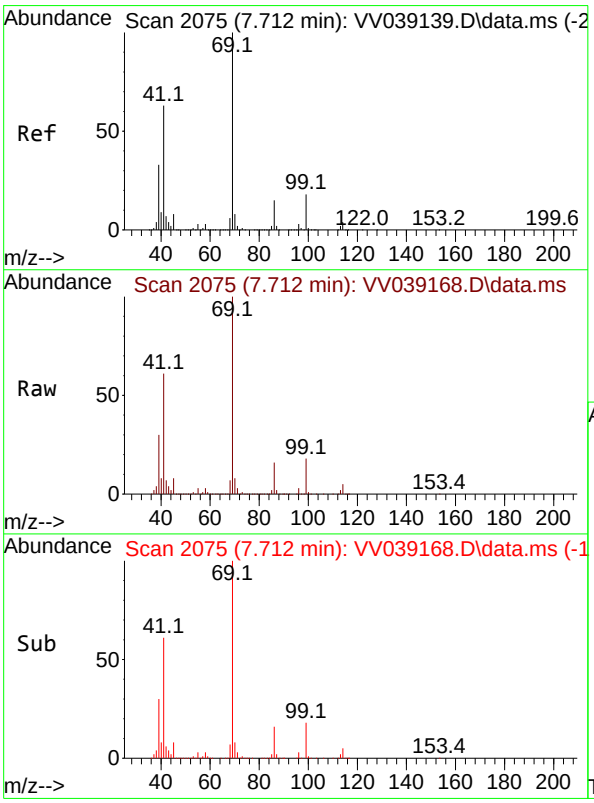
#55
1,1,2-Trichloroethane
Concen: 48.443 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 465236

Ion	Ratio	Lower	Upper
97	100		
83	86.6	71.1	106.7
85	54.3	44.6	67.0
99	65.0	50.6	76.0

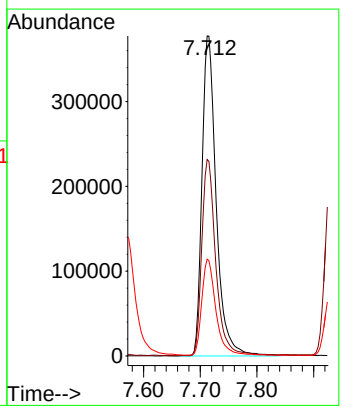


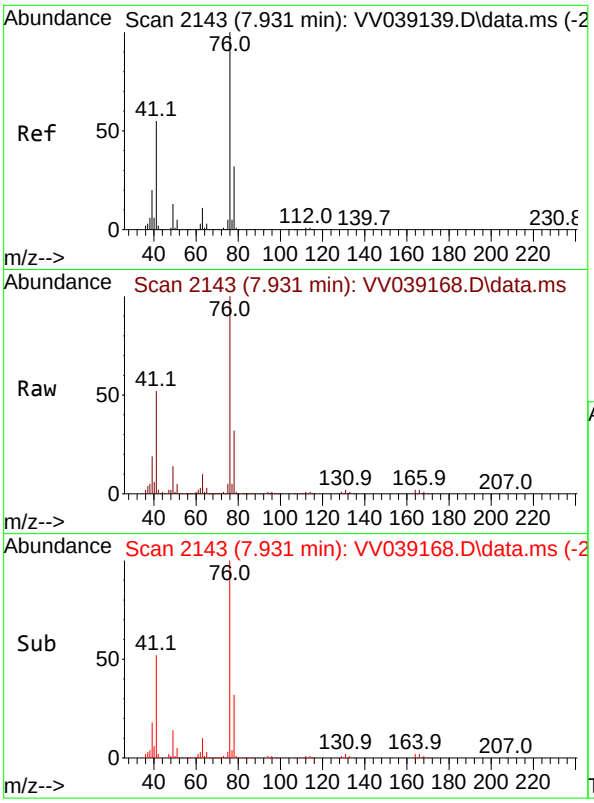


#56
Ethyl methacrylate
Concen: 57.707 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 69 Resp: 658147

Ion	Ratio	Lower	Upper
69	100		
41	59.9	50.7	76.1
39	29.6	26.0	39.0



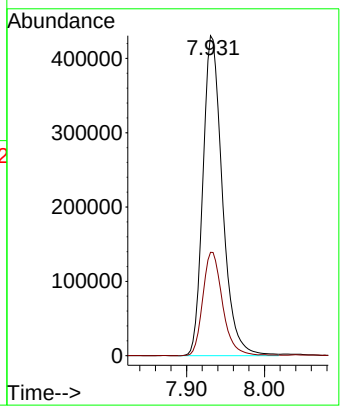


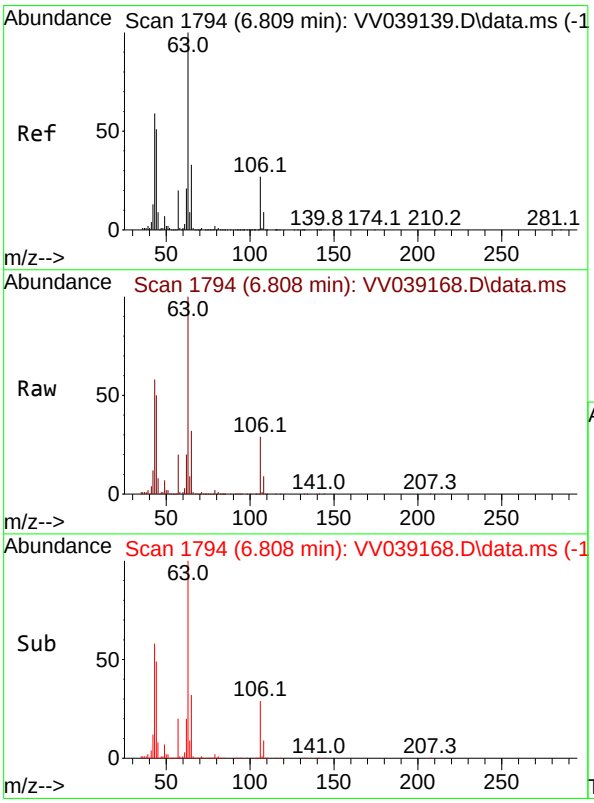
#57
1,3-Dichloropropane
Concen: 49.373 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 748312

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.1	39.1

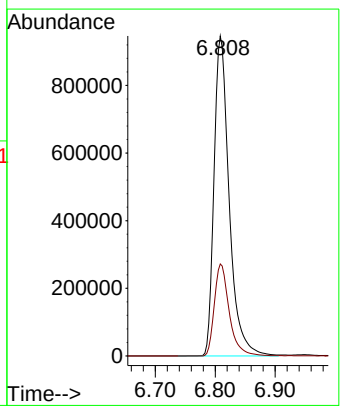


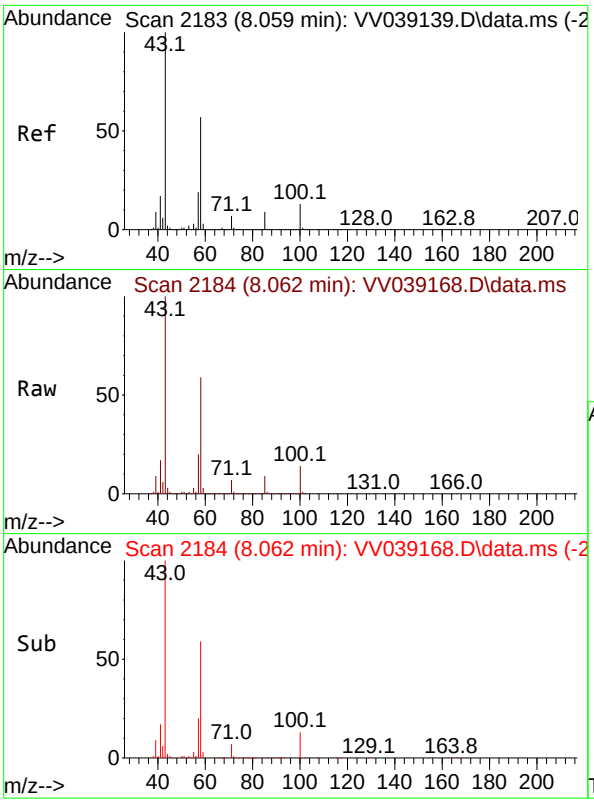


#58
2-Chloroethyl Vinyl ether
Concen: 257.039 ug/l
RT: 6.808 min Scan# 1794
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 63 Resp: 1657102

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.1	33.1



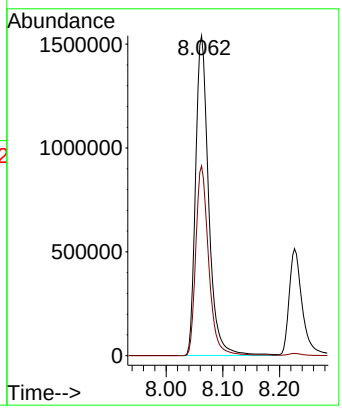


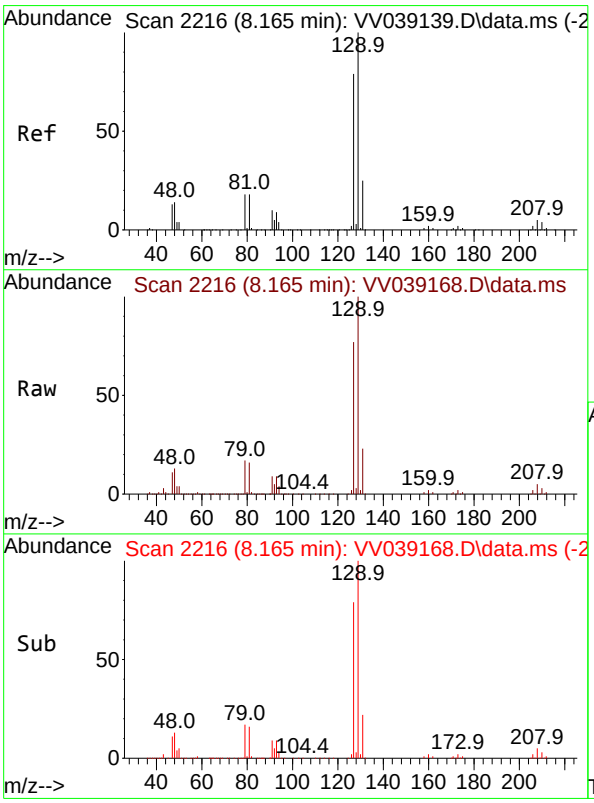
#59
2-Hexanone
Concen: 247.438 ug/l
RT: 8.062 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2465950

Ion	Ratio	Lower	Upper
43	100		
58	58.6	28.3	85.0

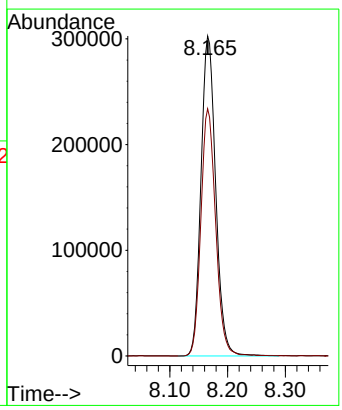


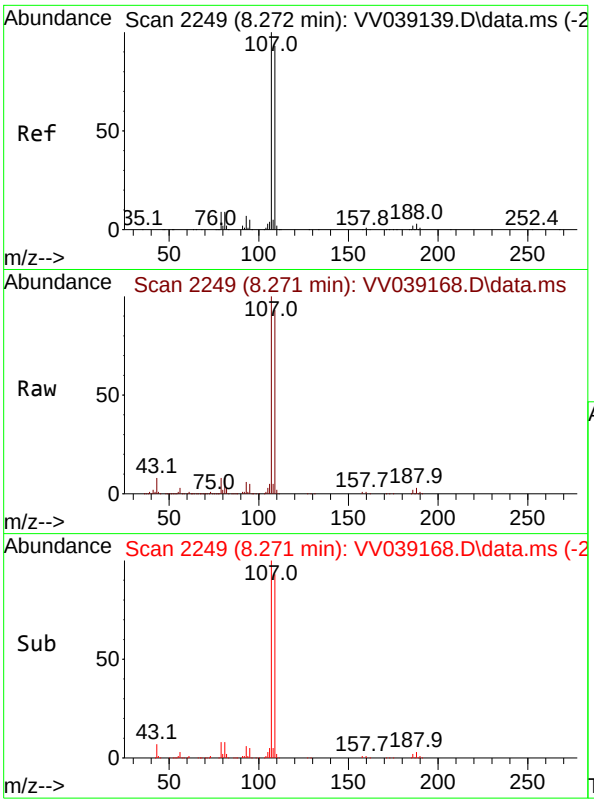


#60
Dibromochloromethane
Concen: 48.938 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:129 Resp: 535532

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.3	117.9



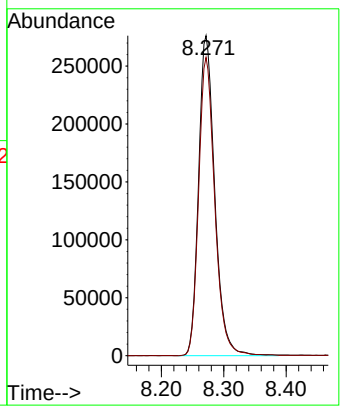


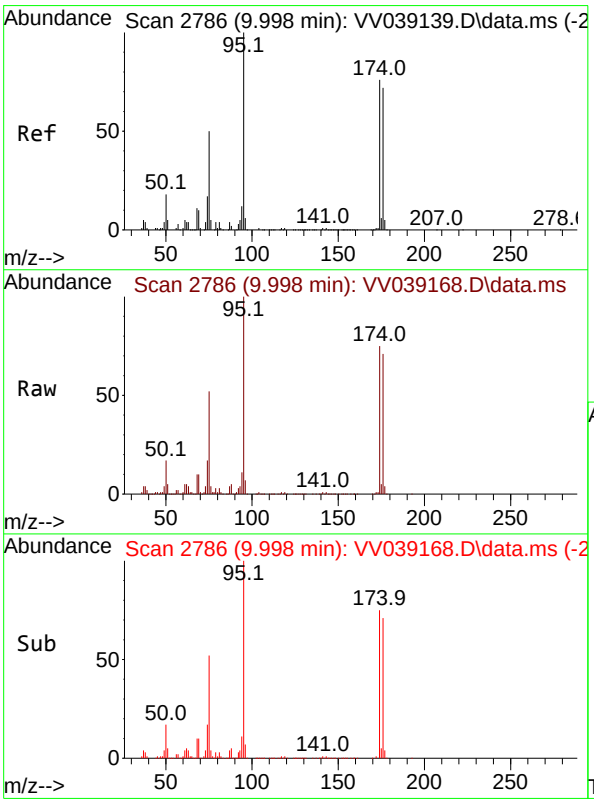
#61
1,2-Dibromoethane
Concen: 50.719 ug/l
RT: 8.271 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 498142

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.6	112.0

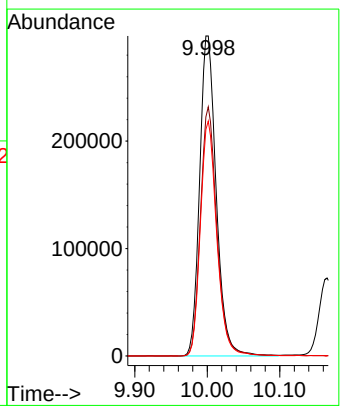


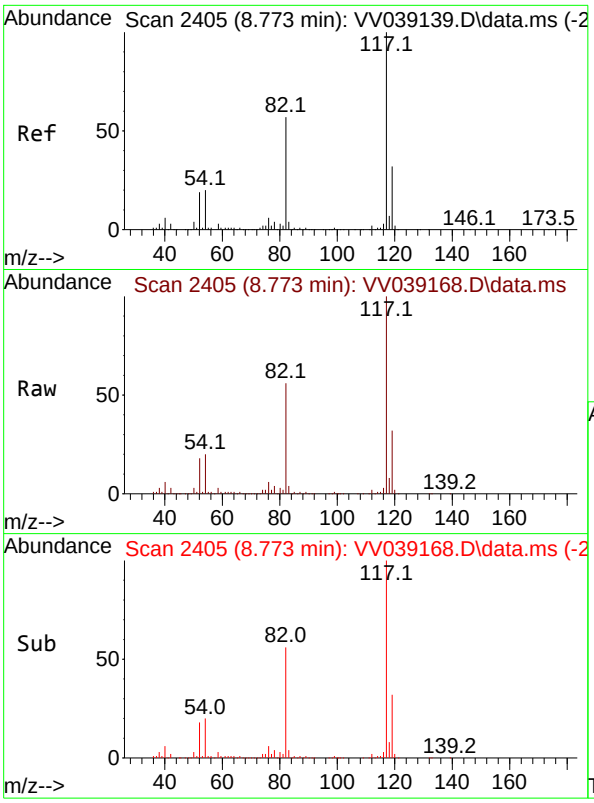


#62
4-Bromofluorobenzene
Concen: 52.218 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 95 Resp: 473731

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	150.4
176	72.7	0.0	144.2



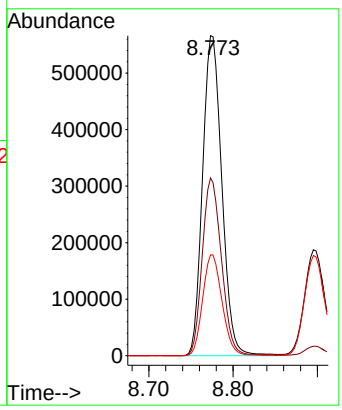


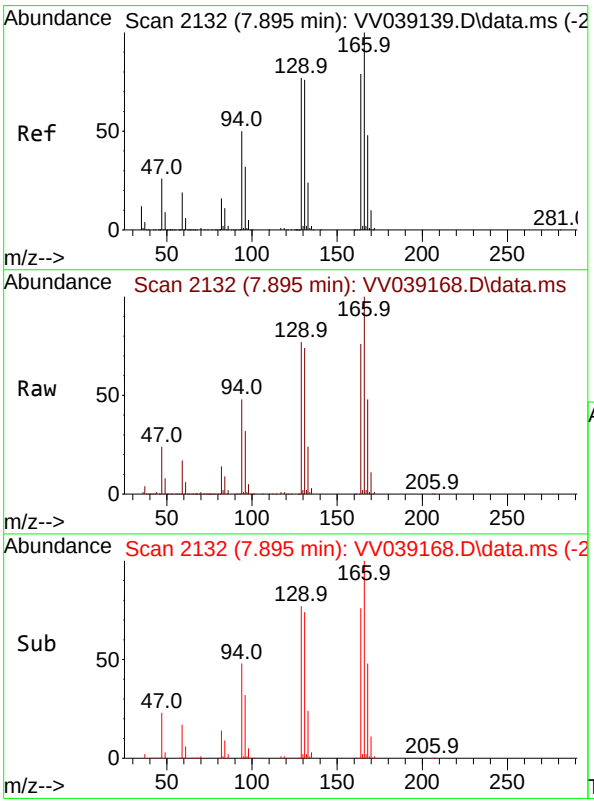
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 901987

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.4	68.2
119	31.5	25.6	38.4

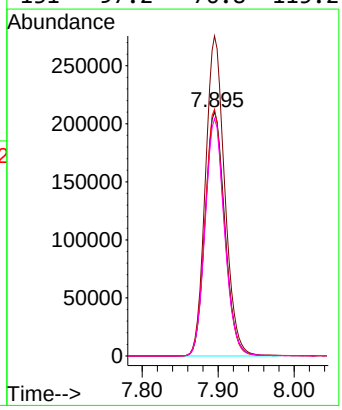


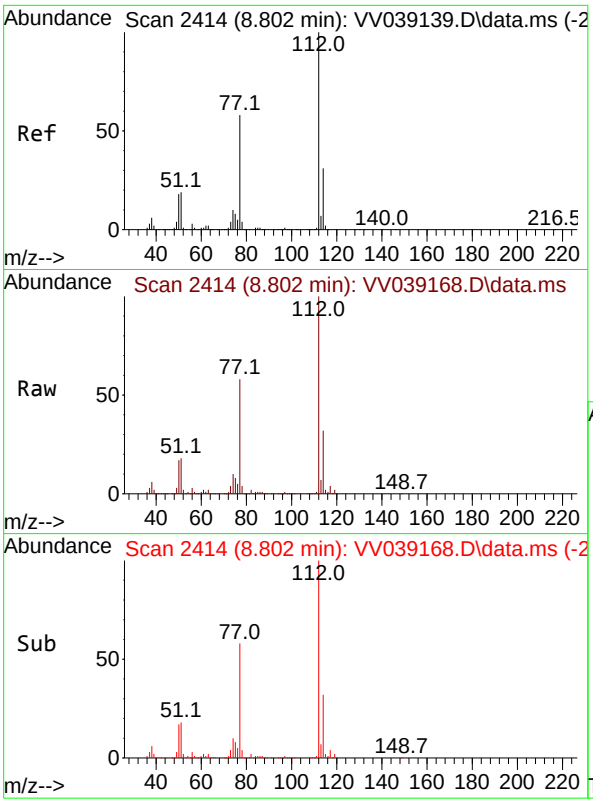


#64
Tetrachloroethene
Concen: 49.857 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:164 Resp: 376666

Ion	Ratio	Lower	Upper
164	100		
166	131.1	101.6	152.4
129	101.0	78.5	117.7
131	97.2	76.8	115.2



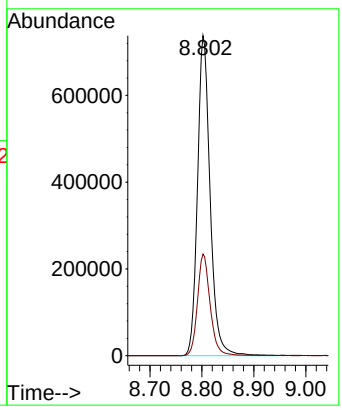


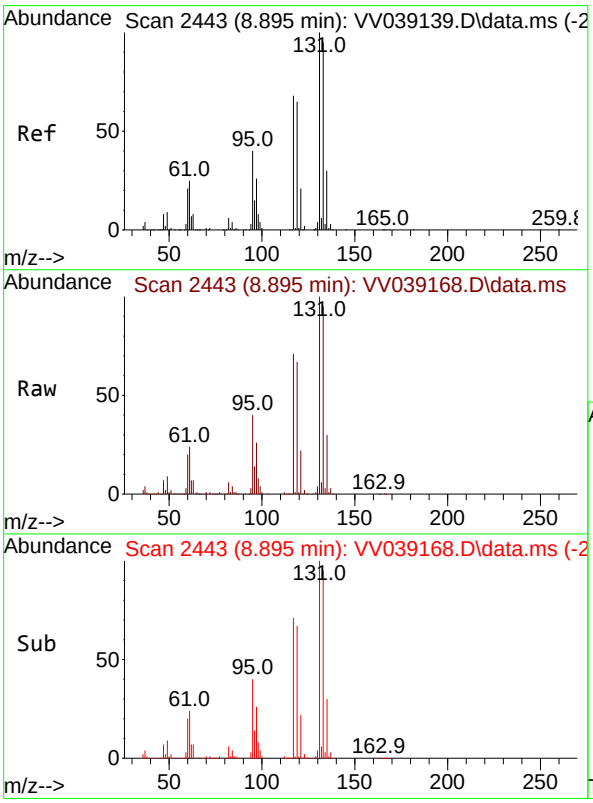
#65
Chlorobenzene
Concen: 49.450 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 1242390

Ion	Ratio	Lower	Upper
112	100		
114	31.8	24.6	37.0

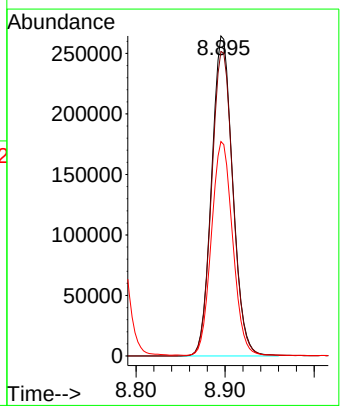


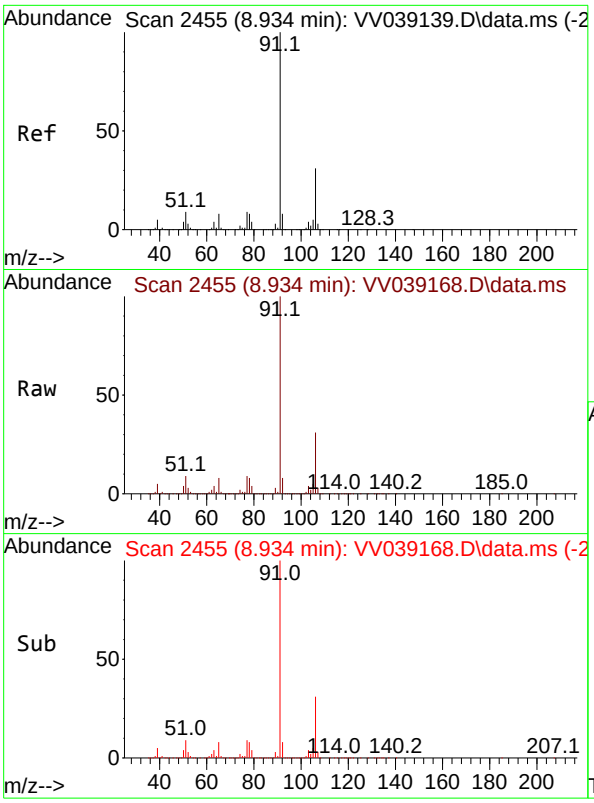


#66
1,1,1,2-Tetrachloroethane
Concen: 47.975 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:131 Resp: 435516

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.3	141.8
119	67.3	33.3	99.8



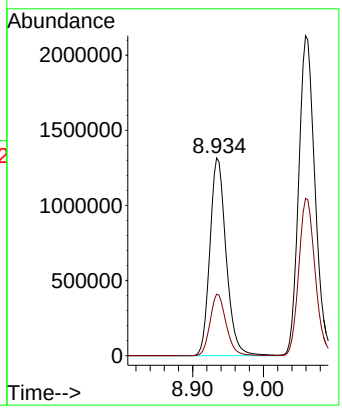


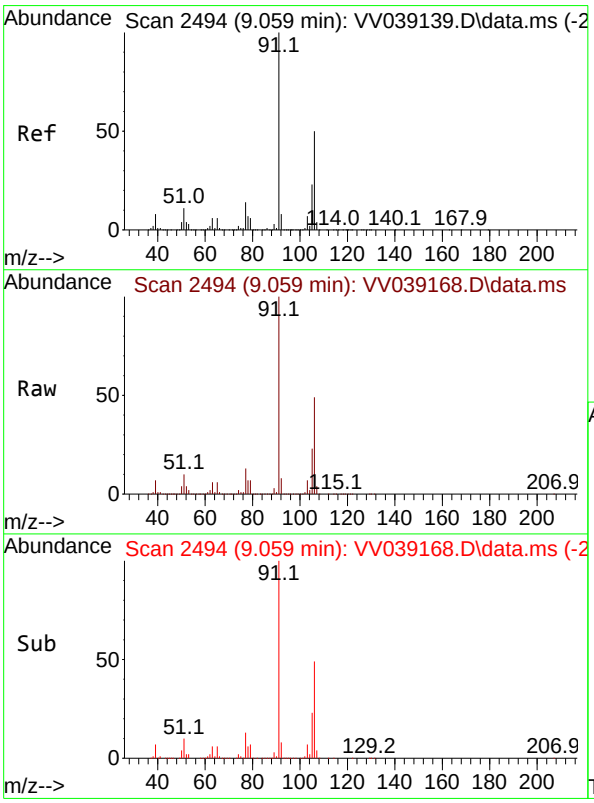
#67
Ethyl Benzene
Concen: 55.024 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 2092639

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.6	37.0

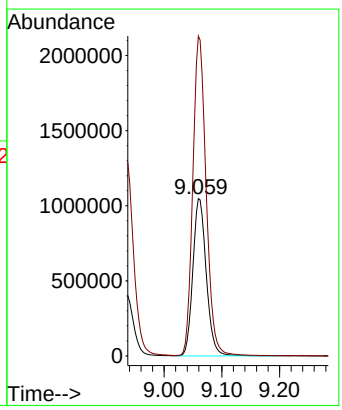


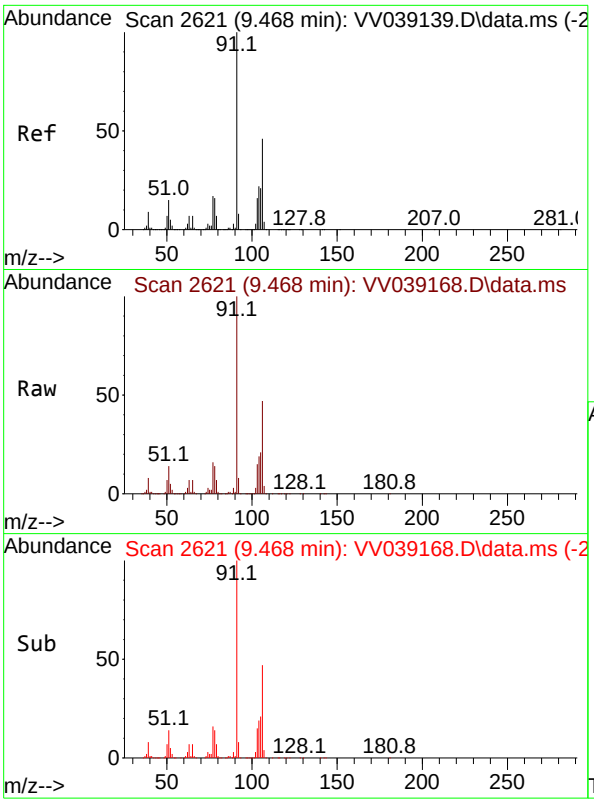


#68
m/p-Xylenes
Concen: 115.018 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:106 Resp: 1688294

Ion	Ratio	Lower	Upper
106	100		
91	202.3	162.5	243.7



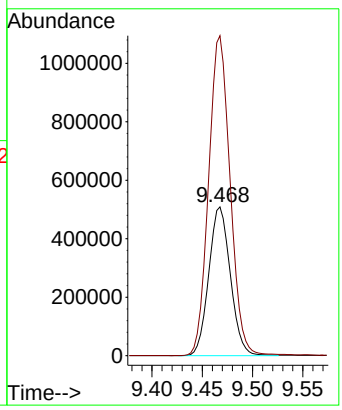


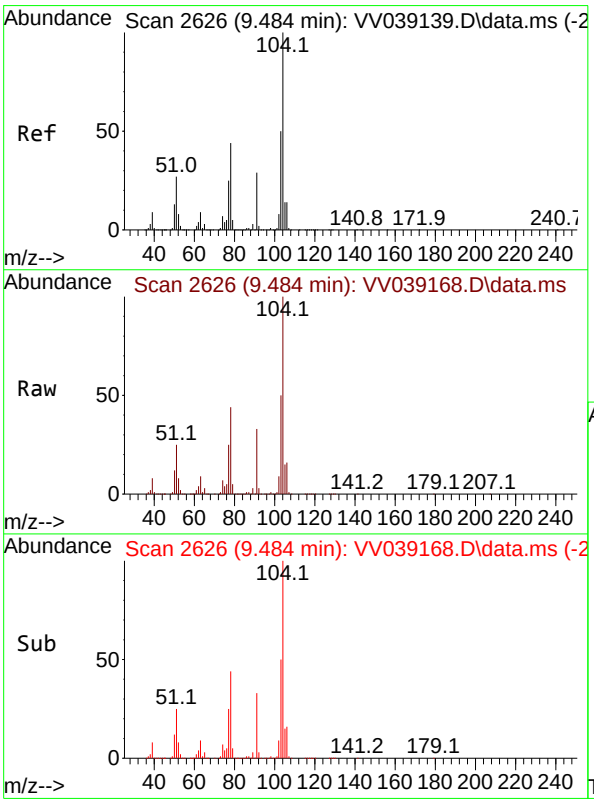
#69
o-Xylene
Concen: 58.347 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 758328

Ion	Ratio	Lower	Upper
106	100		
91	215.3	109.1	327.3

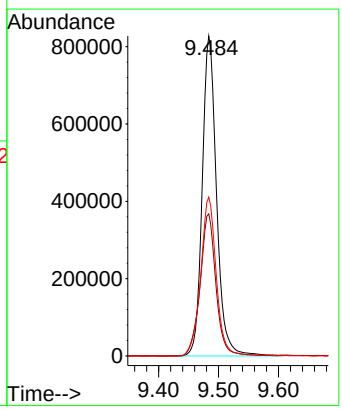


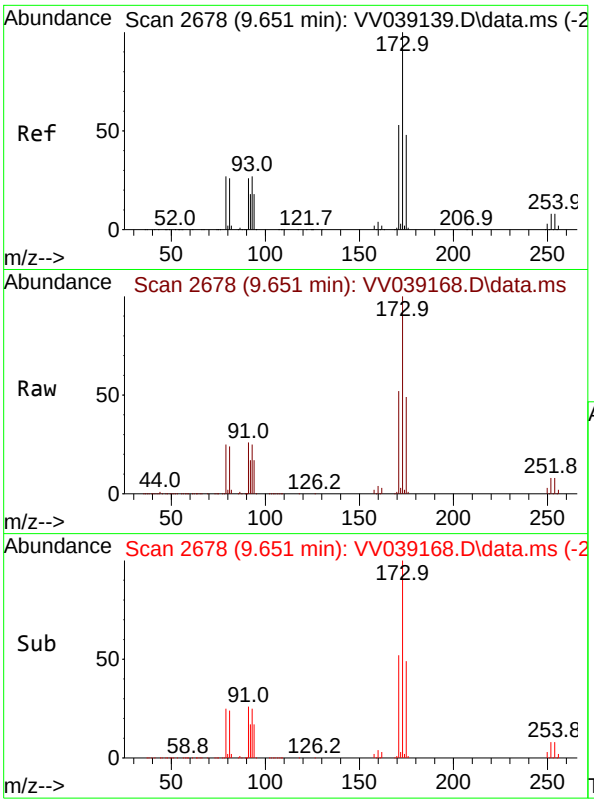


#70
Styrene
Concen: 50.114 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:104 Resp: 1379790

Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.8	59.6
103	53.9	43.4	65.2



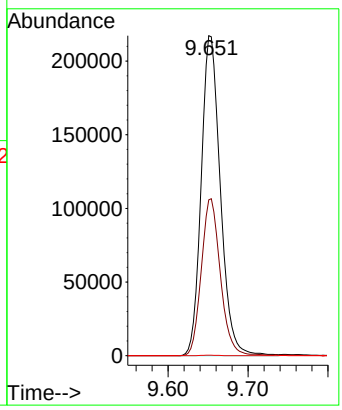


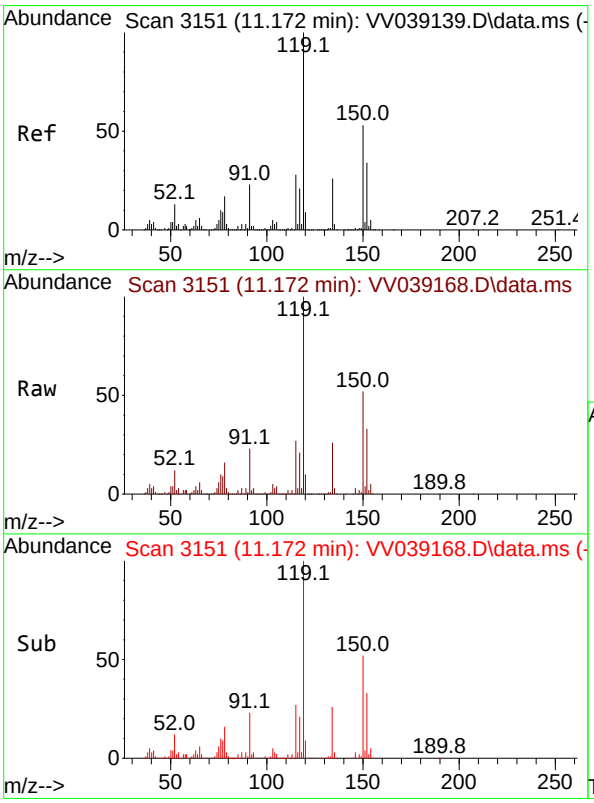
#71
Bromoform
Concen: 51.118 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 362481

Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.9	71.7
254	0.1	0.1	0.1#

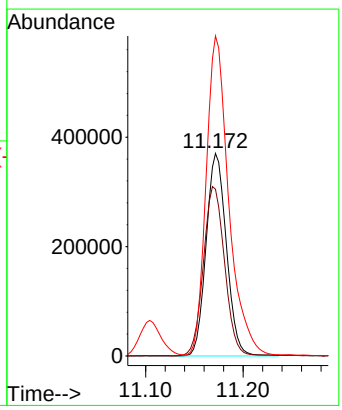


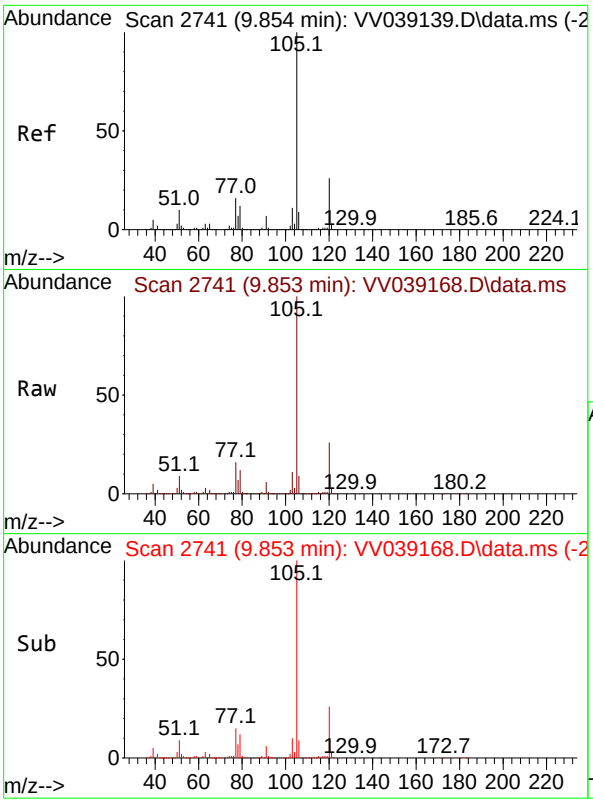


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:152 Resp: 535710

Ion	Ratio	Lower	Upper
152	100		
115	87.4	44.8	134.4
150	176.8	0.0	353.8



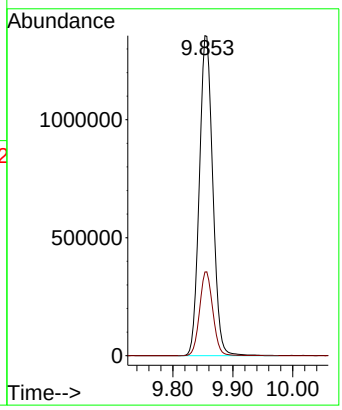


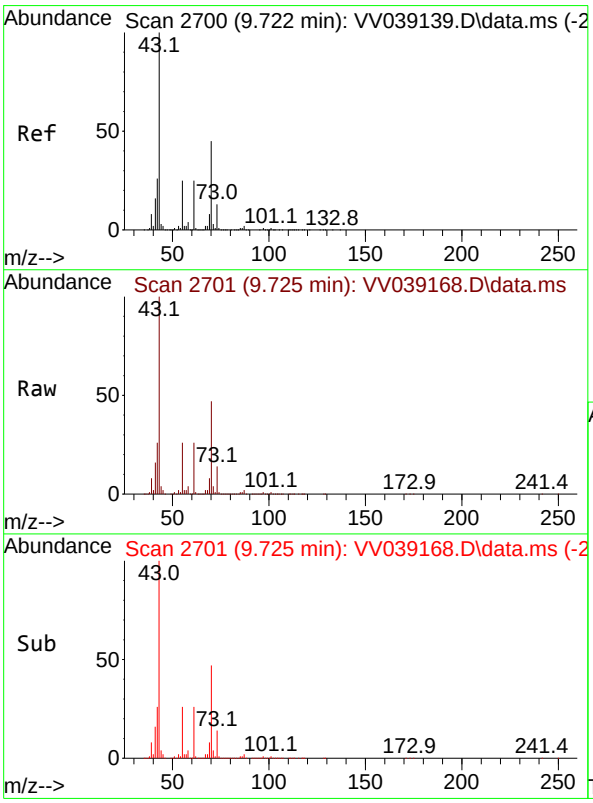
#73
Isopropylbenzene
Concen: 54.407 ug/l
RT: 9.853 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 2113988

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.1	39.1

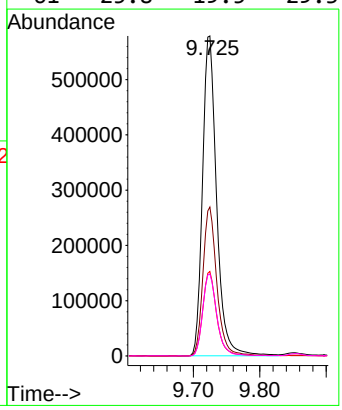


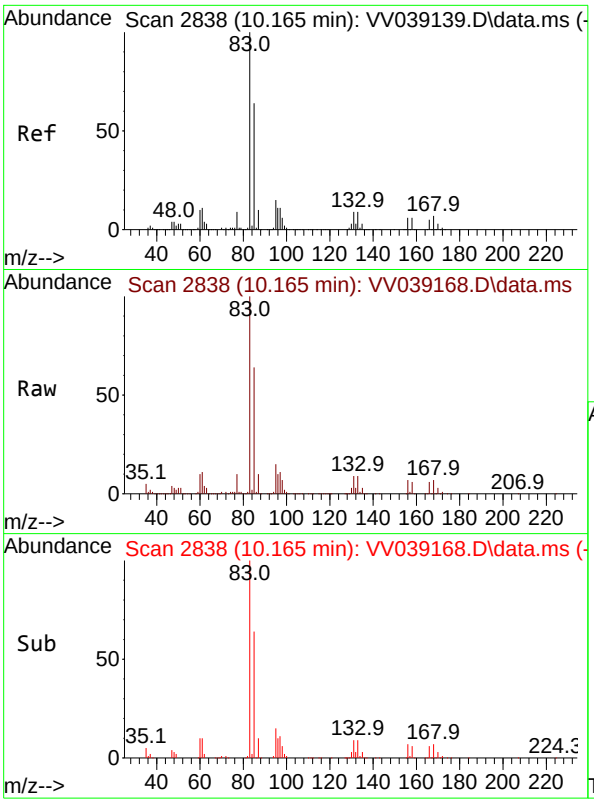


#74
N-amyl acetate
Concen: 55.064 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 43 Resp: 853417

Ion	Ratio	Lower	Upper
43	100		
70	46.2	35.4	53.0
55	26.1	20.6	30.8
61	25.8	19.5	29.3



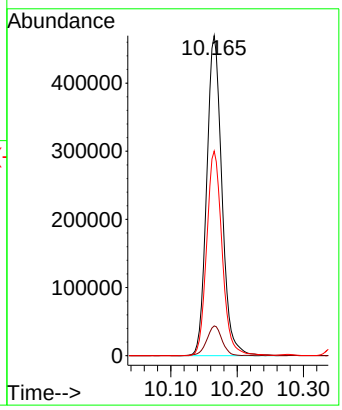


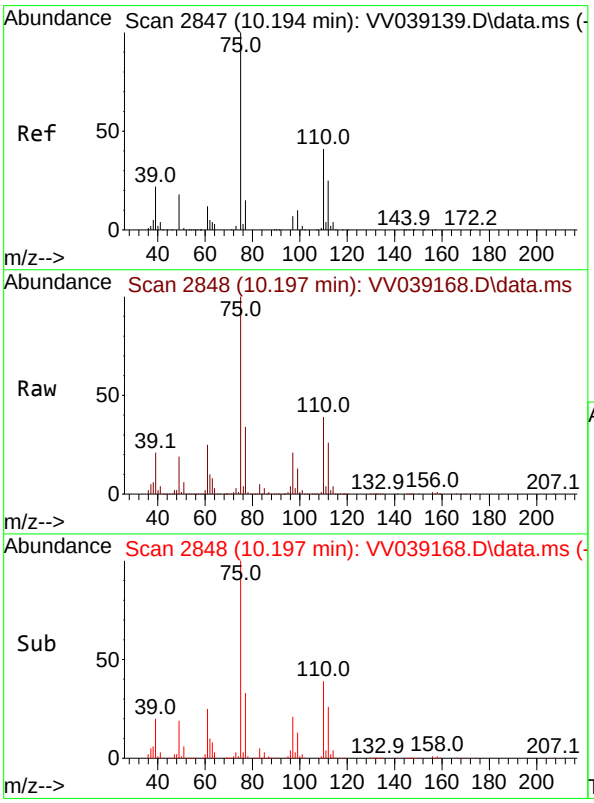
#75
1,1,2,2-Tetrachloroethane
Concen: 43.928 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 747856

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.7
85	64.8	31.9	95.9

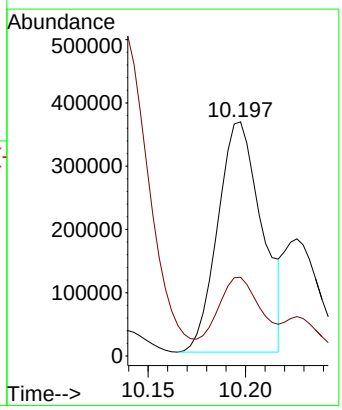


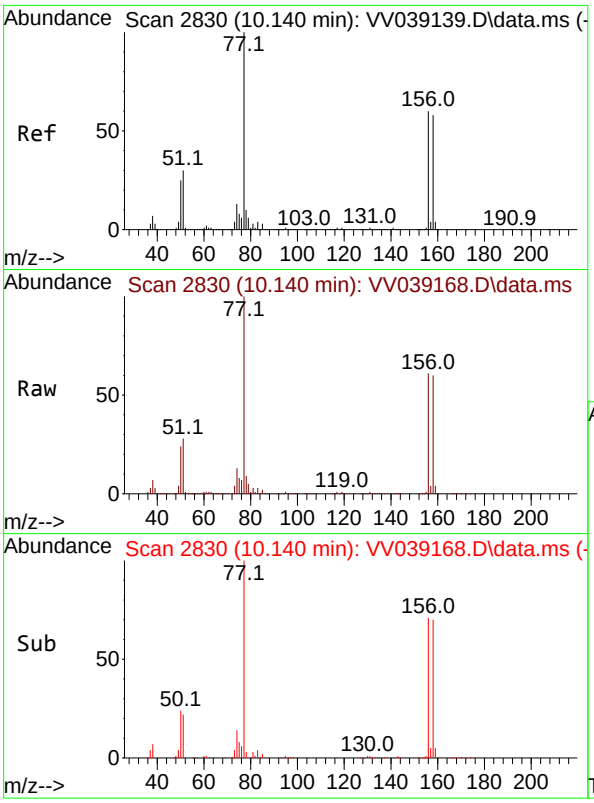


#76
1,2,3-Trichloropropane
Concen: 47.019 ug/l
RT: 10.197 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 573502

Ion	Ratio	Lower	Upper
75	100		
77	23.4	11.3	33.8



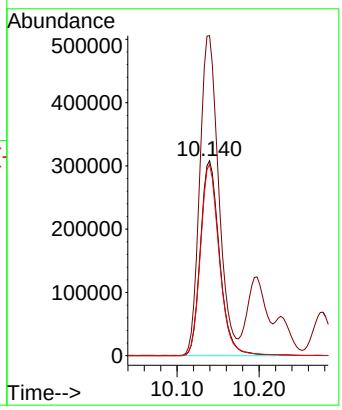


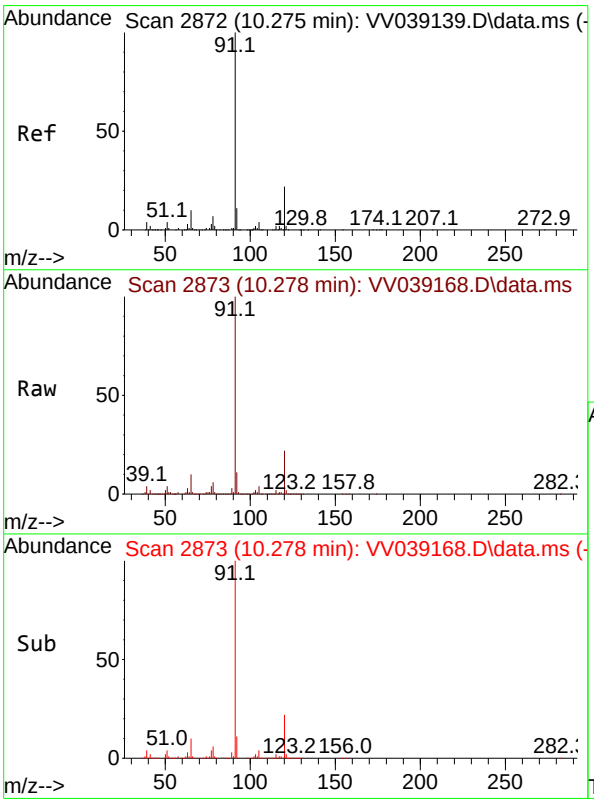
#77
Bromobenzene
Concen: 49.357 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 497564

Ion	Ratio	Lower	Upper
156	100		
77	163.2	83.4	250.1
158	97.0	48.8	146.4

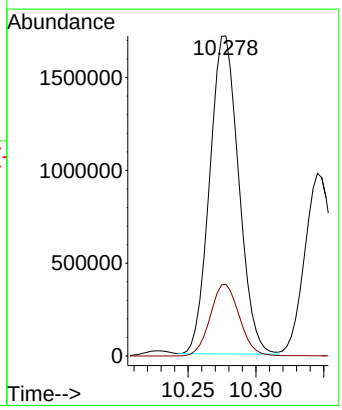


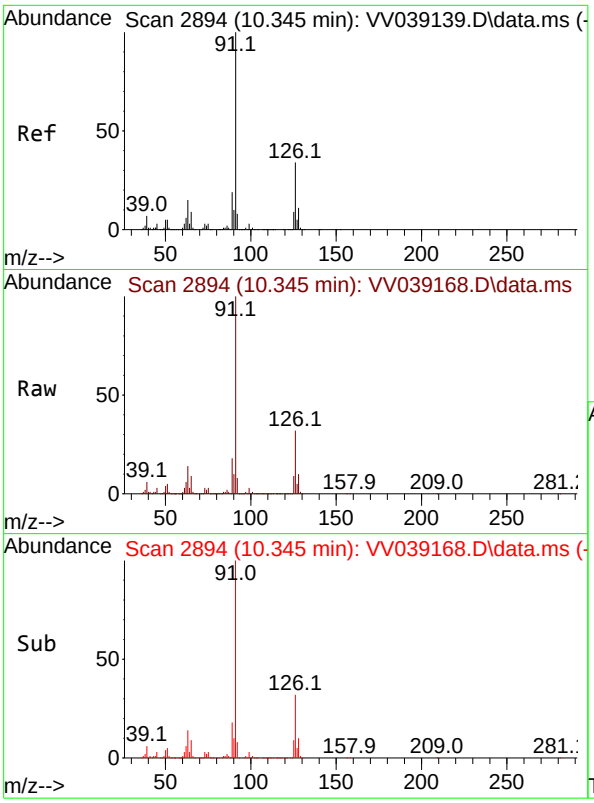


#78
n-propylbenzene
Concen: 53.995 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 91 Resp: 2554851

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.3



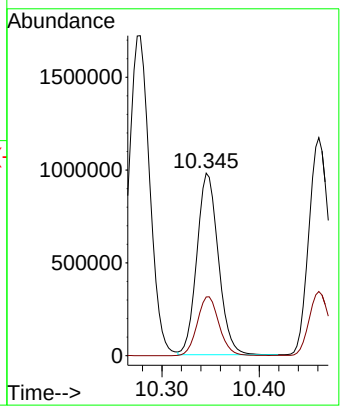


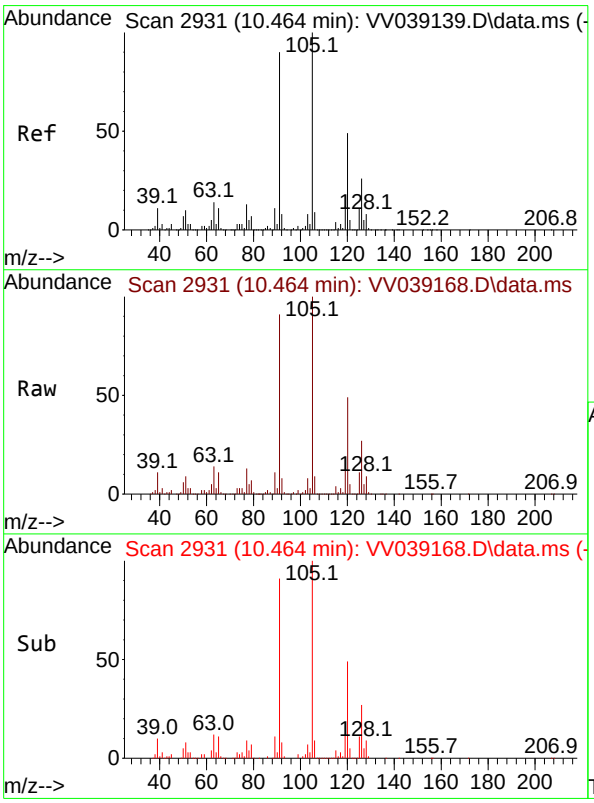
#79
2-Chlorotoluene
Concen: 52.939 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1498849

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.7	50.0

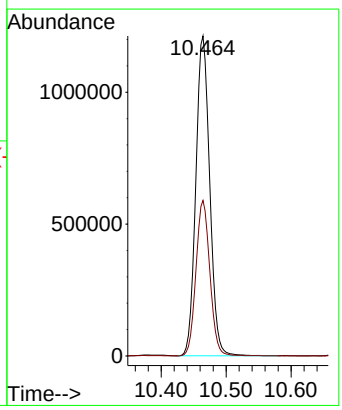


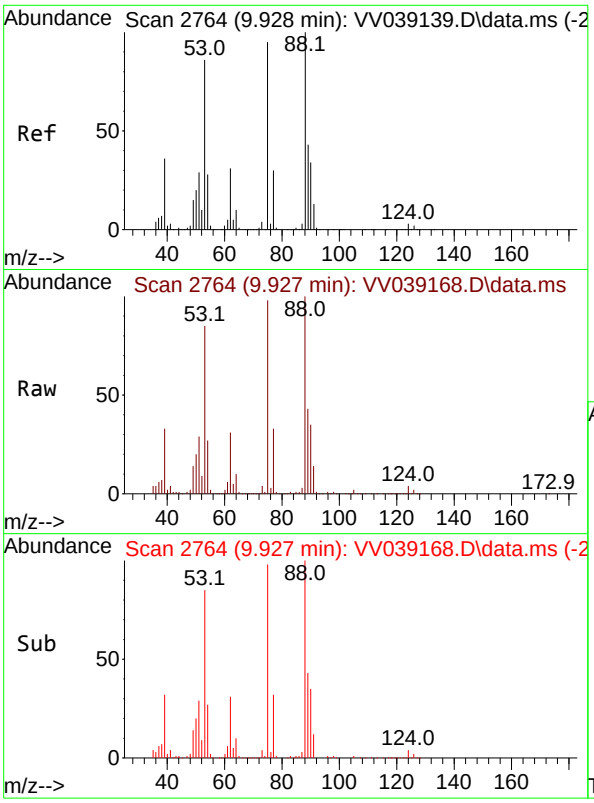


#80
1,3,5-Trimethylbenzene
Concen: 56.020 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:105 Resp: 1809221

Ion	Ratio	Lower	Upper
105	100		
120	48.6	24.3	72.8



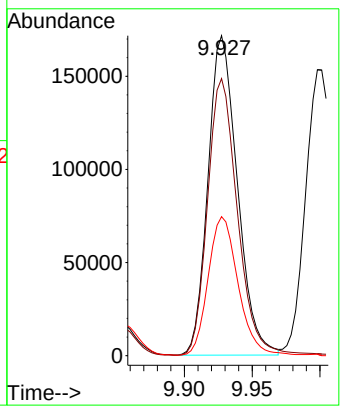


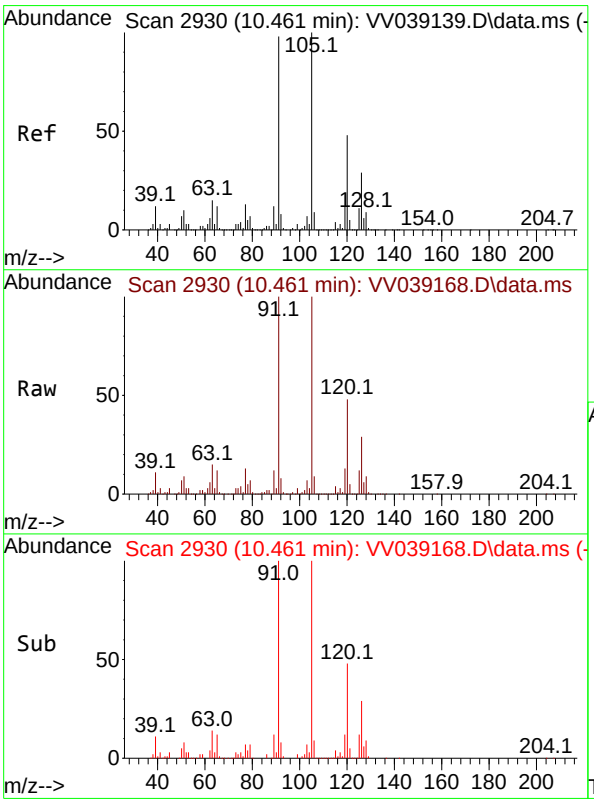
#81
trans-1,4-Dichloro-2-butene
Concen: 50.926 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 258743

Ion	Ratio	Lower	Upper
75	100		
53	88.1	72.5	108.7
89	43.9	37.2	55.8

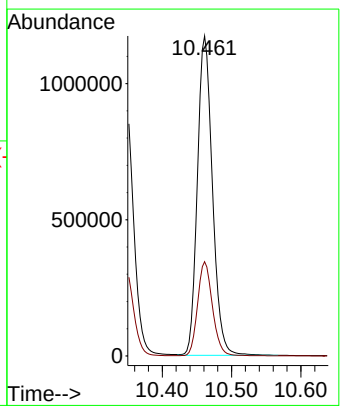


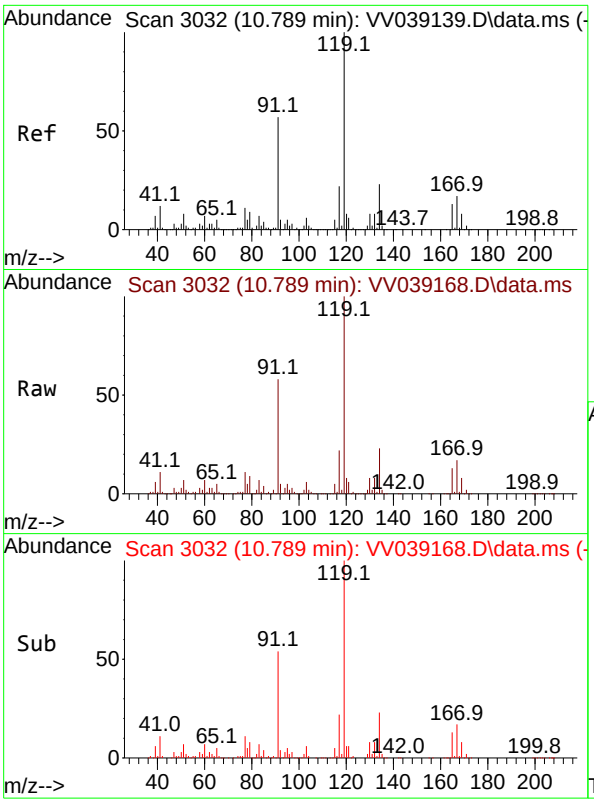


#82
4-Chlorotoluene
Concen: 53.904 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 91 Resp: 1769699

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.5	43.6



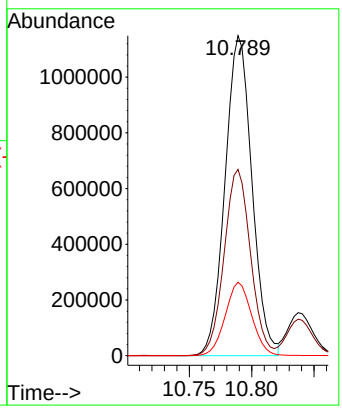


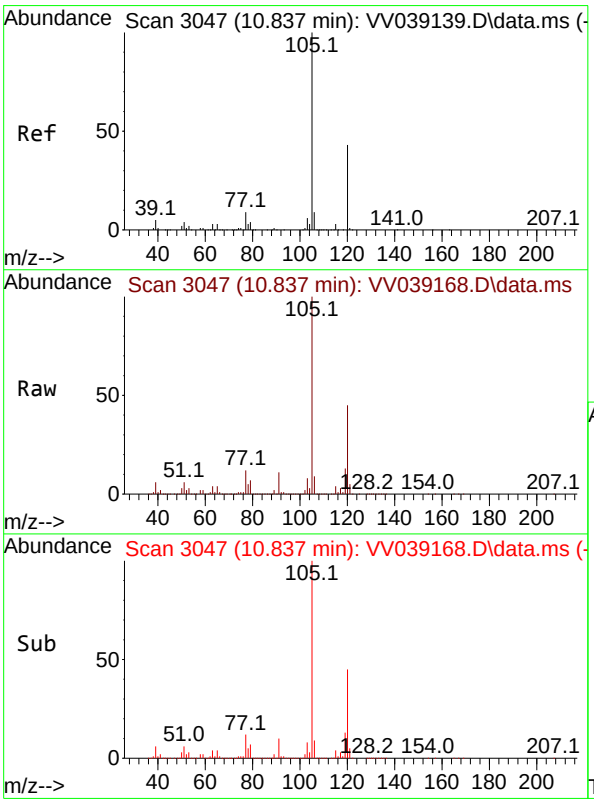
#83
tert-Butylbenzene
Concen: 53.579 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 1725454

Ion	Ratio	Lower	Upper
119	100		
91	57.2	28.5	85.6
134	22.7	11.5	34.4

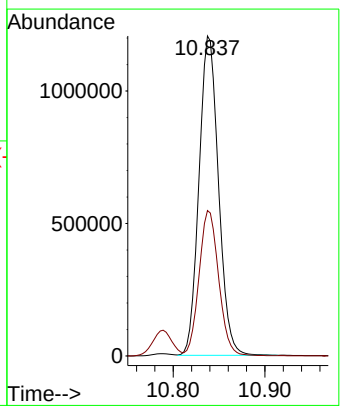


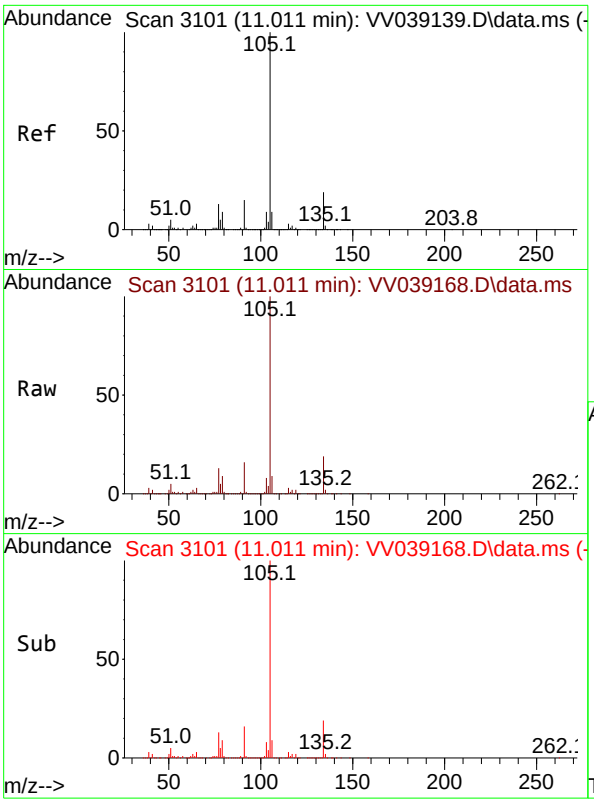


#84
1,2,4-Trimethylbenzene
Concen: 56.693 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:105 Resp: 1777572

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.4	67.2



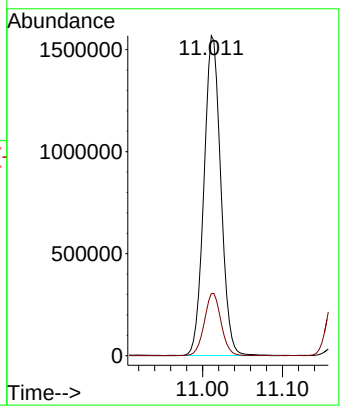


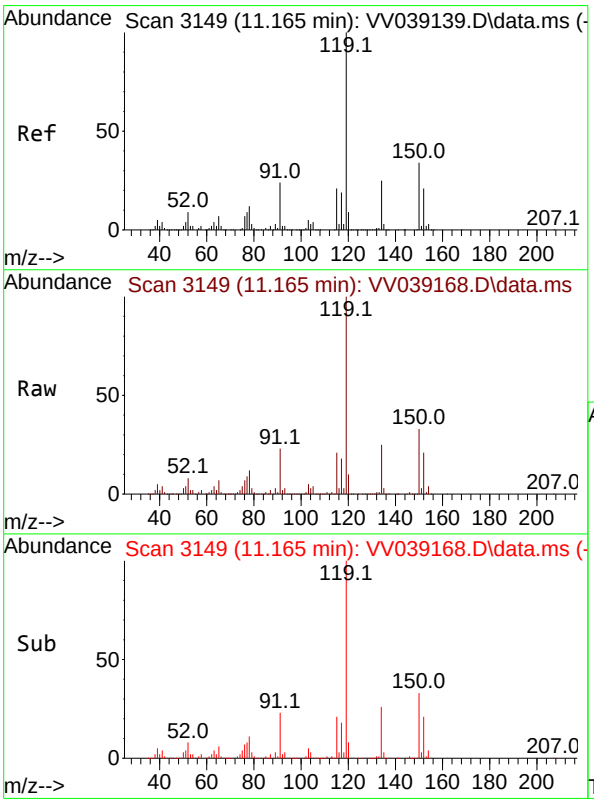
#85
sec-Butylbenzene
Concen: 53.713 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 2294341

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.6	28.8

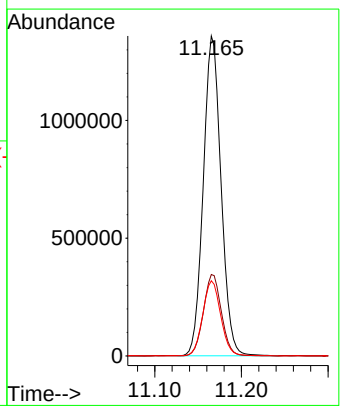


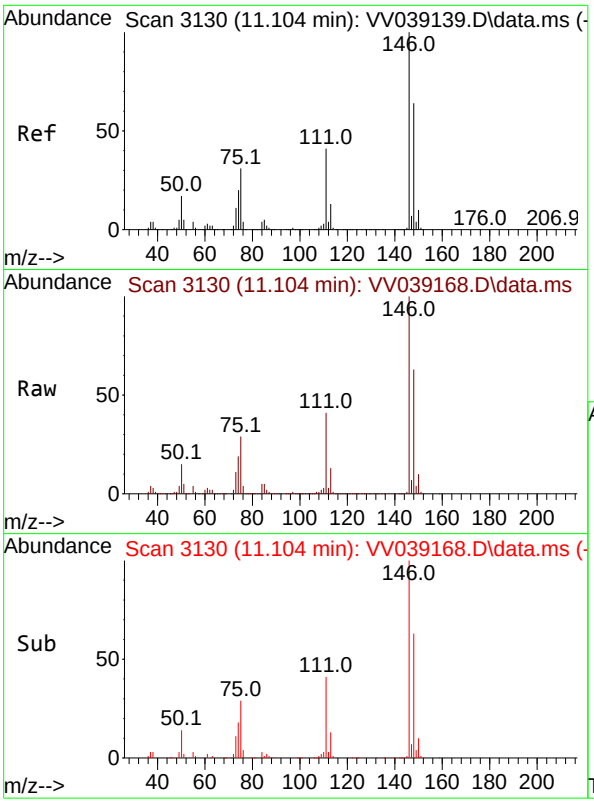


#86
p-Isopropyltoluene
Concen: 54.380 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:119 Resp: 1933306

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.7	38.0
91	23.6	12.0	36.1



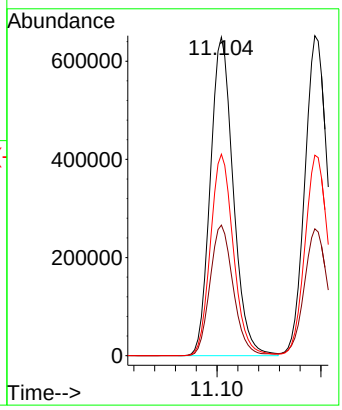


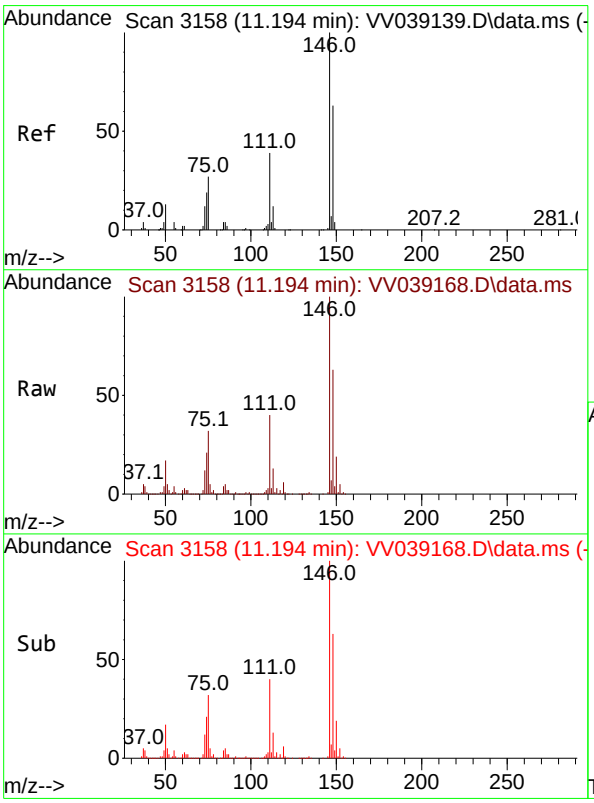
#87
1,3-Dichlorobenzene
Concen: 48.773 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 995077

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.9	62.8
148	63.4	31.8	95.3

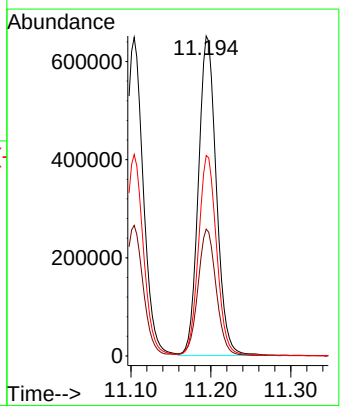


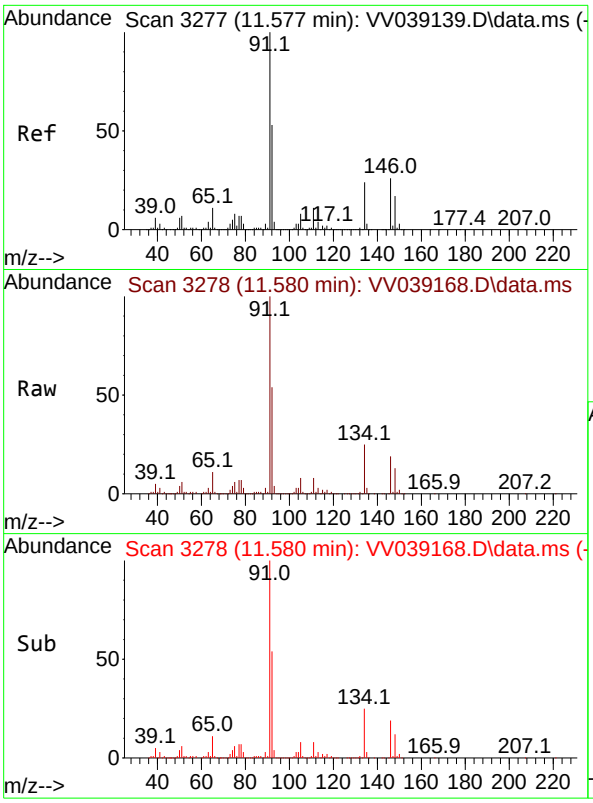


#88
1,4-Dichlorobenzene
Concen: 45.535 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:146 Resp: 1019216

Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.3	60.8
148	63.3	31.4	94.2



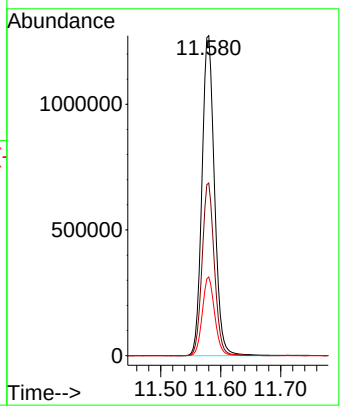


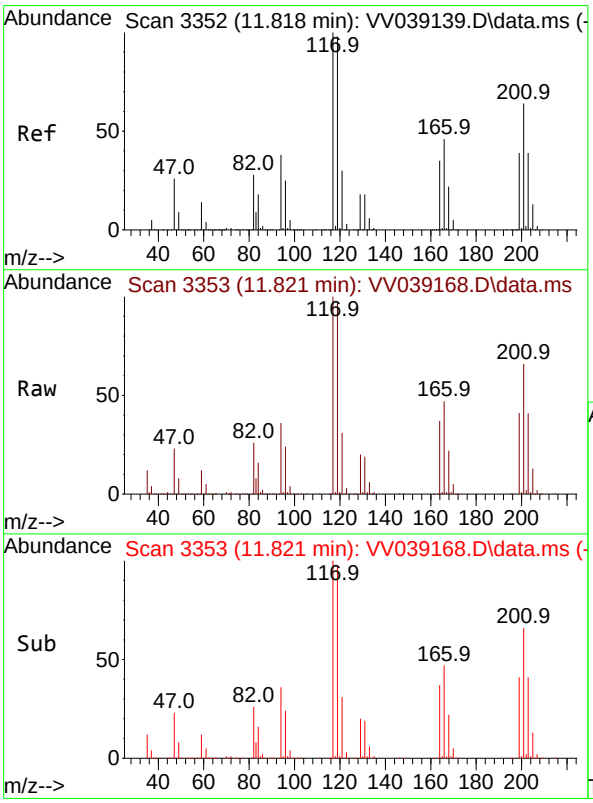
#89
n-Butylbenzene
Concen: 54.607 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1854102

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.8
134	24.4	12.1	36.3

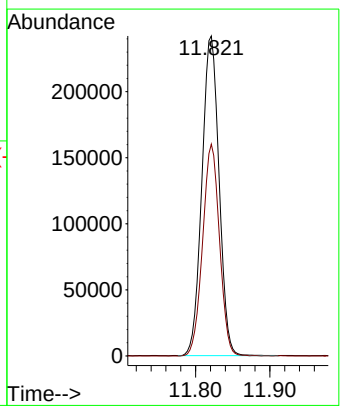


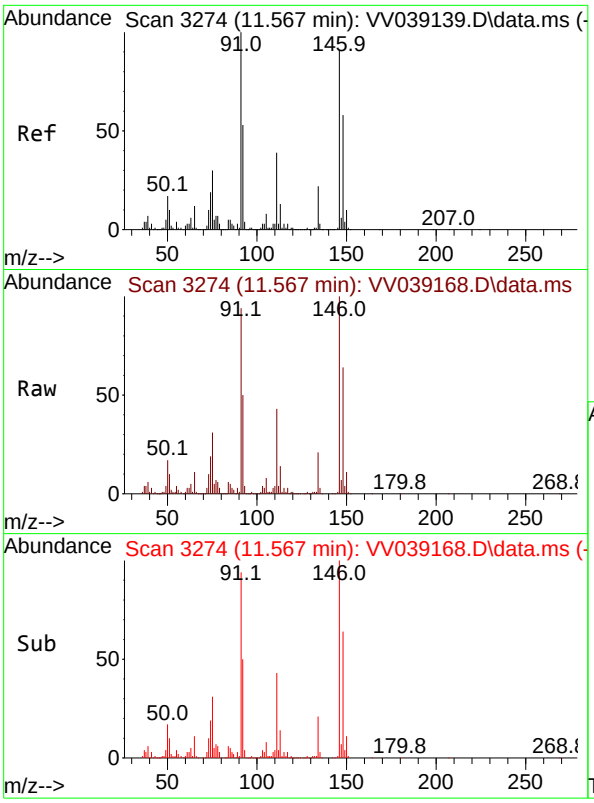


#90
Hexachloroethane
Concen: 44.260 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:117 Resp: 387482

Ion	Ratio	Lower	Upper
117	100		
201	65.1	32.3	96.8



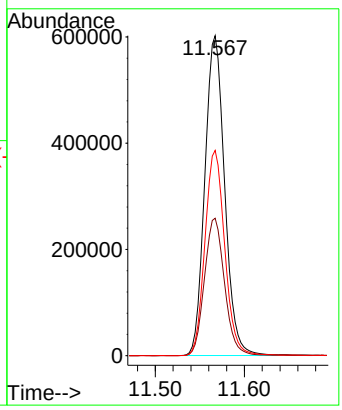


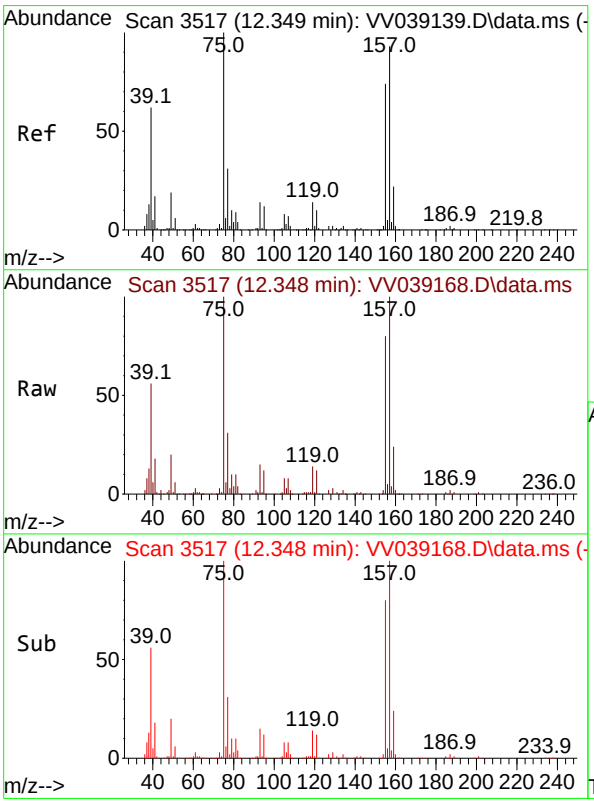
#91
1,2-Dichlorobenzene
Concen: 48.799 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 930166

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.5	64.5
148	64.4	31.9	95.7

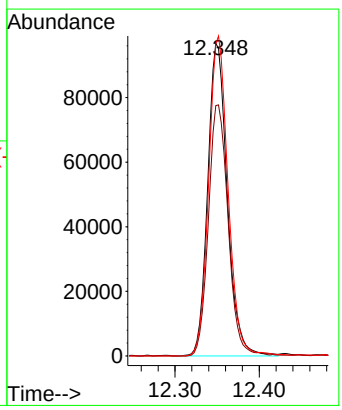


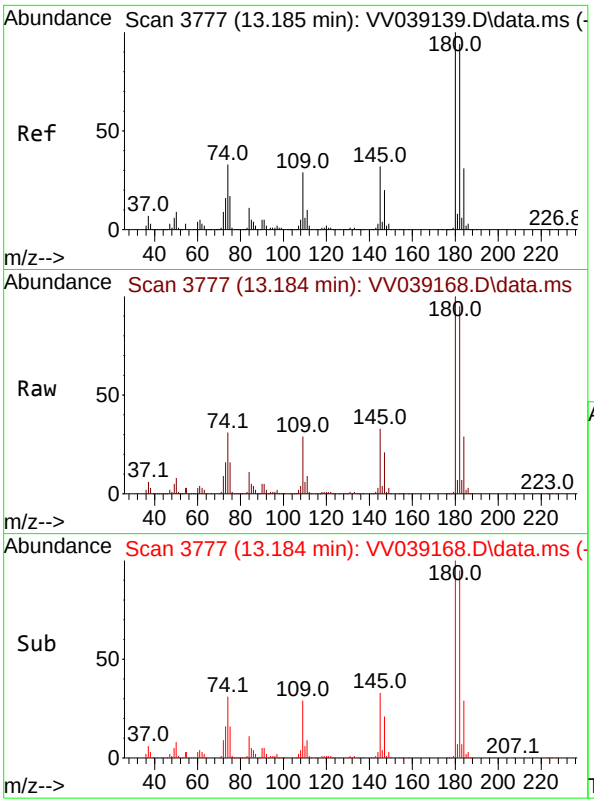


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.961 ug/l
RT: 12.348 min Scan# 3517
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 156226

Ion	Ratio	Lower	Upper
75	100		
155	80.8	38.6	115.8
157	101.6	49.5	148.3



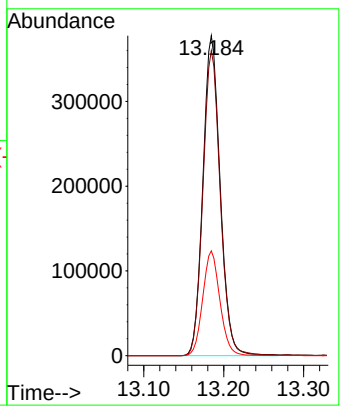


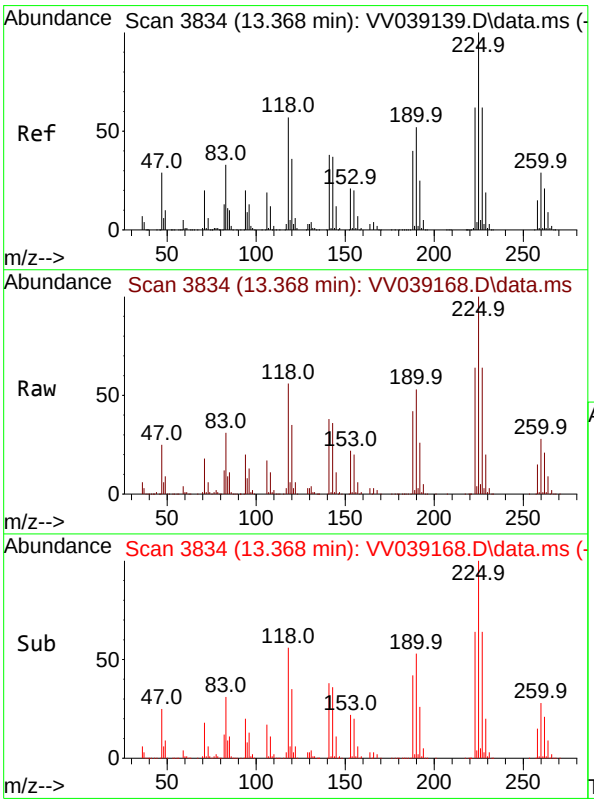
#93
1,2,4-Trichlorobenzene
Concen: 52.055 ug/l
RT: 13.184 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 568781

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.4
145	32.6	16.3	48.8

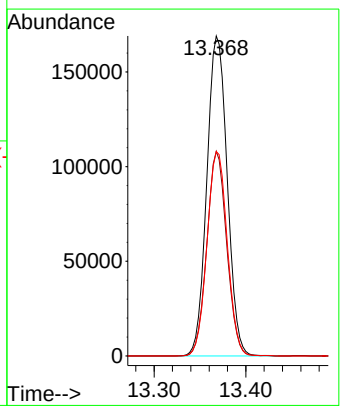


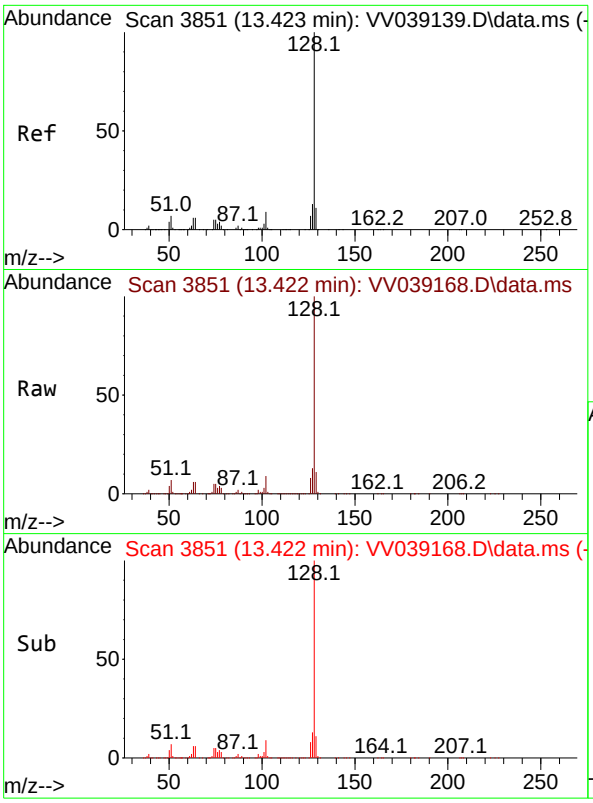


#94
Hexachlorobutadiene
Concen: 45.975 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:225 Resp: 261028

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.6	94.7
227	63.7	31.8	95.4



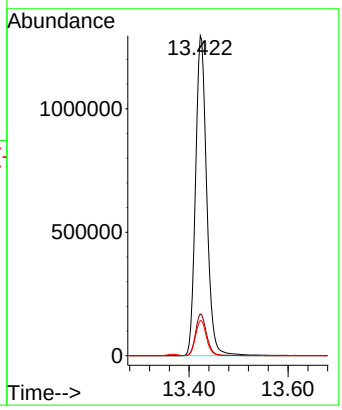


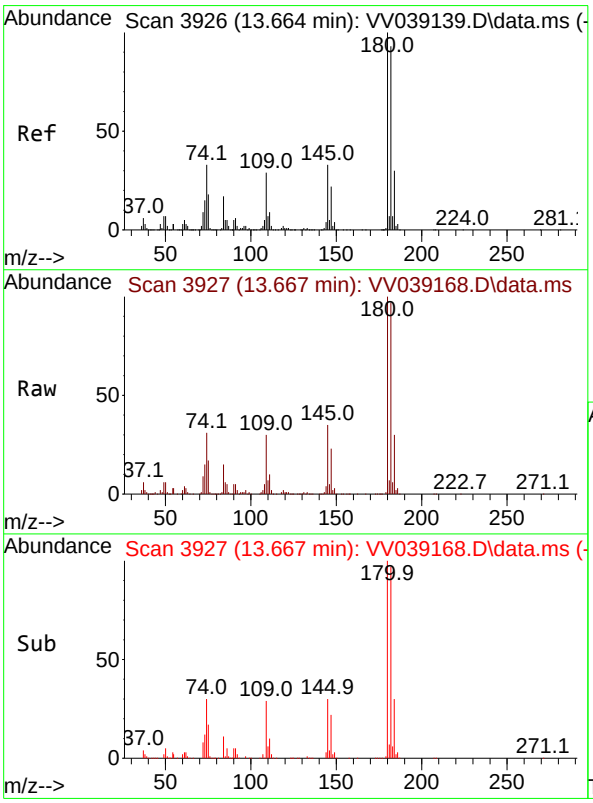
#95
Naphthalene
Concen: 57.749 ug/l
RT: 13.422 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 2039508

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	13.0

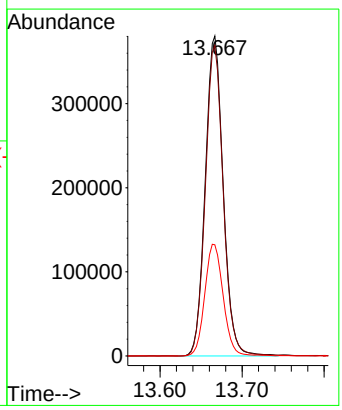




#96
1,2,3-Trichlorobenzene
Concen: 51.848 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:180 Resp: 579422

Ion	Ratio	Lower	Upper
180	100		
182	96.7	46.9	140.8
145	35.8	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	0.791	0.682	13.8	99	0.00
3	P	Chloromethane	0.850	0.729	14.2	102	0.00
4	C	Vinyl Chloride	0.910	0.819	10.0#	105	0.00
5	T	Bromomethane	0.573	0.458	20.1#	97	0.00
6	T	Chloroethane	0.631	0.507	19.7	102	0.00
7	T	Trichlorofluoromethane	1.317	1.199	9.0	108	0.00
8	T	Diethyl Ether	0.489	0.452	7.6	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.784	0.710	9.4	109	0.00
10	T	Methyl Iodide	0.746	0.651	12.7	89	0.00
11	T	Tert butyl alcohol	0.153	0.153	0.0	120	0.00
12	CM	1,1-Dichloroethene	0.754	0.698	7.4#	111	0.00
13	T	Acrolein	0.027	0.024	11.1	99	0.00
14	T	Allyl chloride	1.347	1.199	11.0	104	0.00
15	T	Acrylonitrile	0.490	0.439	10.4	108	0.00
16	T	Acetone	0.523	0.406	22.4#	97	0.00
17	T	Carbon Disulfide	2.306	2.004	13.1	103	0.00
18	T	Methyl Acetate	1.072	0.995	7.2	109	0.00
19	T	Methyl tert-butyl Ether	2.402	2.247	6.5	108	0.00
20	T	Methylene Chloride	1.066	0.788	26.1#	109	0.00
21	T	trans-1,2-Dichloroethene	0.803	0.724	9.8	107	0.00
22	T	Diisopropyl ether	2.576	2.316	10.1	99	0.00
23	T	Vinyl Acetate	2.254	2.056	8.8	100	0.00
24	P	1,1-Dichloroethane	1.576	1.367	13.3	106	0.00
25	T	2-Butanone	0.579	0.544	6.0	100	0.00
26	T	2,2-Dichloropropane	1.397	1.140	18.4	99	0.00
27	T	cis-1,2-Dichloroethene	0.885	0.825	6.8	102	0.00
28	T	Bromochloromethane	0.696	0.612	12.1	97	0.00
29	T	Tetrahydrofuran	0.363	0.355	2.2	103	0.00
30	C	Chloroform	1.645	1.426	13.3#	103	0.00
31	T	Cyclohexane	1.291	1.147	11.2	99	0.00
32	T	1,1,1-Trichloroethane	1.424	1.255	11.9	104	0.00
33	S	1,2-Dichloroethane-d4	0.724	0.609	15.9	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35	S	Dibromofluoromethane	0.402	0.384	4.5	106	0.00
36	T	1,1-Dichloropropene	0.608	0.603	0.8	101	0.00
37	T	Ethyl Acetate	0.737	0.697	5.4	102	0.00
38	T	Carbon Tetrachloride	0.743	0.689	7.3	102	0.00
39	T	Methylcyclohexane	0.734	0.797	-8.6	101	0.00
40	TM	Benzene	1.979	1.926	2.7	101	0.00
41	T	Methacrylonitrile	0.273	0.313	-14.7	99	0.00
42	TM	1,2-Dichloroethane	0.693	0.639	7.8	100	0.00
43	T	Isopropyl Acetate	1.005	1.023	-1.8	100	0.00
44	TM	Trichloroethene	0.457	0.463	-1.3	104	0.00
45	C	1,2-Dichloropropane	0.492	0.493	-0.2#	102	0.00
46	T	Dibromomethane	0.376	0.362	3.7	103	0.00
47	T	Bromodichloromethane	0.778	0.729	6.3	101	0.00
48	T	Methyl methacrylate	0.456	0.482	-5.7	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.008	-14.3	117	0.00
50	S	Toluene-d8	1.181	1.121	5.1	103	0.00
51	T	4-Methyl-2-Pentanone	0.661	0.702	-6.2	100	0.00
52	CM	Toluene	1.147	1.204	-5.0#	102	0.00
53	T	t-1,3-Dichloropropene	0.678	0.709	-4.6	102	0.00
54	T	cis-1,3-Dichloropropene	0.749	0.783	-4.5	101	0.00
55	T	1,1,2-Trichloroethane	0.514	0.498	3.1	105	0.00
56	T	Ethyl methacrylate	0.611	0.705	-15.4	103	0.00
57	T	1,3-Dichloropropane	0.812	0.802	1.2	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.267	0.355	-33.0#	105	0.00
59	T	2-Hexanone	0.463	0.528	-14.0	101	0.00
60	T	Dibromochloromethane	0.586	0.574	2.0	106	0.00
61	T	1,2-Dibromoethane	0.526	0.534	-1.5	105	0.00
62	S	4-Bromofluorobenzene	0.486	0.508	-4.5	105	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.419	0.418	0.2	106	0.00
65	PM	Chlorobenzene	1.393	1.377	1.1	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.503	0.483	4.0	103	0.00
67	C	Ethyl Benzene	2.108	2.320	-10.1#	102	0.00
68	T	m/p-Xylenes	0.814	0.936	-15.0	103	0.00
69	T	o-Xylene	0.720	0.841	-16.8	104	0.00
70	T	Styrene	1.263	1.530	-21.1#	103	0.00
71	P	Bromoform	0.393	0.402	-2.3	106	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
73	T	Isopropylbenzene	3.627	3.946	-8.8	104	0.00
74	T	N-amyl acetate	1.447	1.593	-10.1	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.589	1.396	12.1	102	0.00
76	T	1,2,3-Trichloropropane	1.138	1.071	5.9	106	0.00
77	T	Bromobenzene	0.941	0.929	1.3	104	0.00
78	T	n-propylbenzene	4.416	4.769	-8.0	101	0.00
79	T	2-Chlorotoluene	2.643	2.798	-5.9	102	0.00
80	T	1,3,5-Trimethylbenzene	3.014	3.377	-12.0	103	0.00
81	T	trans-1,4-Dichloro-2-butene	0.474	0.483	-1.9	101	0.00
82	T	4-Chlorotoluene	3.064	3.303	-7.8	103	0.00
83	T	tert-Butylbenzene	3.006	3.221	-7.2	104	0.00
84	T	1,2,4-Trimethylbenzene	2.926	3.318	-13.4	102	0.00
85	T	sec-Butylbenzene	3.987	4.283	-7.4	102	0.00
86	T	p-Isopropyltoluene	3.318	3.609	-8.8	102	0.00
87	T	1,3-Dichlorobenzene	1.904	1.857	2.5	104	0.00
88	T	1,4-Dichlorobenzene	2.089	1.903	8.9	102	0.00
89	T	n-Butylbenzene	3.169	3.461	-9.2	99	0.00
90	T	Hexachloroethane	0.817	0.723	11.5	103	0.00
91	T	1,2-Dichlorobenzene	1.779	1.736	2.4	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.330	0.292	11.5	106	0.00
93	T	1,2,4-Trichlorobenzene	1.020	1.062	-4.1	102	0.00
94	T	Hexachlorobutadiene	0.530	0.487	8.1	105	0.00
95	T	Naphthalene	3.296	3.807	-15.5	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.082	-3.7	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	50.000	43.088	13.8	99	0.00
3	P	Chloromethane	50.000	42.924	14.2	102	0.00
4	C	Vinyl Chloride	50.000	45.040	9.9#	105	0.00
5	T	Bromomethane	50.000	39.912	20.2#	97	0.00
6	T	Chloroethane	50.000	47.163	5.7	102	0.00
7	T	Trichlorofluoromethane	50.000	45.520	9.0	108	0.00
8	T	Diethyl Ether	50.000	46.259	7.5	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.275	9.5	109	0.00
10	T	Methyl Iodide	50.000	43.640	12.7	89	0.00
11	T	Tert butyl alcohol	250.000	249.596	0.2	120	0.00
12	CM	1,1-Dichloroethene	50.000	46.283	7.4#	111	0.00
13	T	Acrolein	250.000	229.786	8.1	99	0.00
14	T	Allyl chloride	50.000	44.523	11.0	104	0.00
15	T	Acrylonitrile	250.000	223.829	10.5	108	0.00
16	T	Acetone	250.000	224.844	10.1	97	0.00
17	T	Carbon Disulfide	50.000	43.464	13.1	103	0.00
18	T	Methyl Acetate	50.000	46.408	7.2	109	0.00
19	T	Methyl tert-butyl Ether	50.000	46.768	6.5	108	0.00
20	T	Methylene Chloride	50.000	50.438	-0.9	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.131	9.7	107	0.00
22	T	Diisopropyl ether	50.000	44.947	10.1	99	0.00
23	T	Vinyl Acetate	250.000	228.109	8.8	100	0.00
24	P	1,1-Dichloroethane	50.000	43.389	13.2	106	0.00
25	T	2-Butanone	250.000	234.849	6.1	100	0.00
26	T	2,2-Dichloropropane	50.000	40.800	18.4	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.579	6.8	102	0.00
28	T	Bromochloromethane	50.000	44.019	12.0	97	0.00
29	T	Tetrahydrofuran	250.000	244.856	2.1	103	0.00
30	C	Chloroform	50.000	43.324	13.4#	103	0.00
31	T	Cyclohexane	50.000	44.432	11.1	99	0.00
32	T	1,1,1-Trichloroethane	50.000	44.071	11.9	104	0.00
33	S	1,2-Dichloroethane-d4	50.000	42.102	15.8	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35	S	Dibromofluoromethane	50.000	47.826	4.3	106	0.00
36	T	1,1-Dichloropropene	50.000	49.586	0.8	101	0.00
37	T	Ethyl Acetate	50.000	47.290	5.4	102	0.00
38	T	Carbon Tetrachloride	50.000	46.350	7.3	102	0.00
39	T	Methylcyclohexane	50.000	54.277	-8.6	101	0.00
40	TM	Benzene	50.000	48.671	2.7	101	0.00
41	T	Methacrylonitrile	50.000	47.017	6.0	99	0.00
42	TM	1,2-Dichloroethane	50.000	46.050	7.9	100	0.00
43	T	Isopropyl Acetate	50.000	50.848	-1.7	100	0.00
44	TM	Trichloroethene	50.000	50.680	-1.4	104	0.00
45	C	1,2-Dichloropropane	50.000	50.088	-0.2#	102	0.00
46	T	Dibromomethane	50.000	48.059	3.9	103	0.00
47	T	Bromodichloromethane	50.000	46.843	6.3	101	0.00
48	T	Methyl methacrylate	50.000	52.825	-5.7	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1135.751	-13.6	117	0.00
50	S	Toluene-d8	50.000	47.485	5.0	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	265.177	-6.1	100	0.00
52	CM	Toluene	50.000	52.474	-4.9#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	52.243	-4.5	102	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.312	-4.6	101	0.00
55	T	1,1,2-Trichloroethane	50.000	48.443	3.1	105	0.00
56	T	Ethyl methacrylate	50.000	57.707	-15.4	103	0.00
57	T	1,3-Dichloropropane	50.000	49.373	1.3	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	257.039	-2.8	105	0.00
59	T	2-Hexanone	250.000	247.438	1.0	101	0.00
60	T	Dibromochloromethane	50.000	48.938	2.1	106	0.00
61	T	1,2-Dibromoethane	50.000	50.719	-1.4	105	0.00
62	S	4-Bromofluorobenzene	50.000	52.218	-4.4	105	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	49.857	0.3	106	0.00
65	PM	Chlorobenzene	50.000	49.450	1.1	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	47.975	4.0	103	0.00
67	C	Ethyl Benzene	50.000	55.024	-10.0#	102	0.00
68	T	m/p-Xylenes	100.000	115.018	-15.0	103	0.00
69	T	o-Xylene	50.000	58.347	-16.7	104	0.00
70	T	Styrene	50.000	50.114	-0.2	103	0.00
71	P	Bromoform	50.000	51.118	-2.2	106	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	104	0.00
73	T	Isopropylbenzene	50.000	54.407	-8.8	104	0.00
74	T	N-amyl acetate	50.000	55.064	-10.1	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.928	12.1	102	0.00
76	T	1,2,3-Trichloropropane	50.000	47.019	6.0	106	0.00
77	T	Bromobenzene	50.000	49.357	1.3	104	0.00
78	T	n-propylbenzene	50.000	53.995	-8.0	101	0.00
79	T	2-Chlorotoluene	50.000	52.939	-5.9	102	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.020	-12.0	103	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.926	-1.9	101	0.00
82	T	4-Chlorotoluene	50.000	53.904	-7.8	103	0.00
83	T	tert-Butylbenzene	50.000	53.579	-7.2	104	0.00
84	T	1,2,4-Trimethylbenzene	50.000	56.693	-13.4	102	0.00
85	T	sec-Butylbenzene	50.000	53.713	-7.4	102	0.00
86	T	p-Isopropyltoluene	50.000	54.380	-8.8	102	0.00
87	T	1,3-Dichlorobenzene	50.000	48.773	2.5	104	0.00
88	T	1,4-Dichlorobenzene	50.000	45.535	8.9	102	0.00
89	T	n-Butylbenzene	50.000	54.607	-9.2	99	0.00
90	T	Hexachloroethane	50.000	44.260	11.5	103	0.00
91	T	1,2-Dichlorobenzene	50.000	48.799	2.4	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.961	-1.9	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.055	-4.1	102	0.00
94	T	Hexachlorobutadiene	50.000	45.975	8.0	105	0.00
95	T	Naphthalene	50.000	57.749	-15.5	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.848	-3.7	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/26/2025 09:20

Lab File ID: VV039198.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.792	0.698		-11.87	20
Chloromethane	0.850	0.736	0.1	-13.41	20
Vinyl Chloride	0.910	0.844		-7.25	20
Bromomethane	0.573	0.514		-10.3	20
Chloroethane	0.631	0.532		-15.69	20
Trichlorofluoromethane	1.317	1.229		-6.68	20
1,1,2-Trichlorotrifluoroethane	0.784	0.749		-4.46	20
1,1-Dichloroethene	0.754	0.714		-5.3	20
Acetone	0.523	0.568		8.6	20
Carbon Disulfide	2.306	2.040		-11.53	20
Methyl tert-butyl Ether	2.402	2.440		1.58	20
Methyl Acetate	1.072	1.106		3.17	20
Methylene Chloride	1.066	0.831		-22.05	20
trans-1,2-Dichloroethene	0.803	0.750		-6.6	20
1,1-Dichloroethane	1.576	1.404	0.1	-10.91	20
Cyclohexane	1.291	1.107		-14.25	20
2-Butanone	0.579	0.645		11.4	20
Carbon Tetrachloride	0.743	0.677		-8.88	20
cis-1,2-Dichloroethene	0.885	0.866		-2.15	20
Bromochloromethane	0.696	0.693		-0.43	20
Chloroform	1.645	1.456		-11.49	20
1,1,1-Trichloroethane	1.424	1.256		-11.8	20
Methylcyclohexane	0.734	0.718		-2.18	20
Benzene	1.979	1.939		-2.02	20
1,2-Dichloroethane	0.693	0.652		-5.92	20
Trichloroethene	0.457	0.469		2.63	20
1,2-Dichloropropane	0.492	0.493		0.2	20
Bromodichloromethane	0.778	0.742		-4.63	20
4-Methyl-2-Pentanone	0.661	0.725		9.68	20
Toluene	1.147	1.207		5.23	20
t-1,3-Dichloropropene	0.678	0.734		8.26	20
cis-1,3-Dichloropropene	0.749	0.806		7.61	20
1,1,2-Trichloroethane	0.514	0.512		-0.39	20
2-Hexanone	0.463	0.570		23.11	20
Dibromochloromethane	0.586	0.587		0.17	20
1,2-Dibromoethane	0.526	0.553		5.13	20
Tetrachloroethene	0.419	0.418		-0.24	20
Chlorobenzene	1.393	1.391	0.3	-0.14	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/26/2025 09:20

Lab File ID: VV039198.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.108	2.309		9.53	20
m/p-Xylenes	0.814	0.937		15.11	20
o-Xylene	0.720	0.840		16.67	20
Styrene	1.263	1.544		22.25	20
Bromoform	0.393	0.425	0.1	8.14	20
Isopropylbenzene	3.627	3.794		4.6	20
1,1,2,2-Tetrachloroethane	1.589	1.478	0.3	-6.99	20
1,3-Dichlorobenzene	1.904	1.883		-1.1	20
1,4-Dichlorobenzene	2.089	1.913		-8.43	20
1,2-Dichlorobenzene	1.779	1.780		0.06	20
1,2-Dibromo-3-Chloropropane	0.330	0.312		-5.45	20
1,2,4-Trichlorobenzene	1.020	1.046		2.55	20
1,2,3-Trichlorobenzene	1.043	1.088		4.31	20
1,2-Dichloroethane-d4	0.724	0.673		-7.04	20
Dibromofluoromethane	0.402	0.406		1	20
Toluene-d8	1.181	1.181		0	20
4-Bromofluorobenzene	0.486	0.558		14.81	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.597	168	568268	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	890856	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	851107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	503461	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	382222	46.473	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 92.940%			
35) Dibromofluoromethane	4.497	113	361542	50.482	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 100.960%			
50) Toluene-d8	7.233	98	1052144	50.021	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 100.040%			
62) 4-Bromofluorobenzene	9.998	95	496739	57.366	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 114.740%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	396522	44.079	ug/l	98
3) Chloromethane	1.227	50	418050	43.290	ug/l	100
4) Vinyl Chloride	1.295	62	479647	46.394	ug/l	100
5) Bromomethane	1.494	94	291810	44.774	ug/l	98
6) Chloroethane	1.558	64	302144	49.614	ug/l	96
7) Trichlorofluoromethane	1.722	101	698490	46.665	ug/l	99
8) Diethyl Ether	1.915	74	274691	49.434	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.079	101	425486	47.774	ug/l	98
10) Methyl Iodide	2.195	142	417411	49.215	ug/l	97
11) Tert butyl alcohol	2.568	59	464183	267.036	ug/l	99
12) 1,1-Dichloroethene	2.079	96	405466	47.323	ug/l	95
13) Acrolein	2.008	56	78856	261.435	ug/l	100
14) Allyl chloride	2.356	41	702274	45.886	ug/l	96
15) Acrylonitrile	2.671	53	1342967	241.006	ug/l	99
16) Acetone	2.118	43	1614924	325.476	ug/l	97
17) Carbon Disulfide	2.249	76	1159506	44.250	ug/l	99
18) Methyl Acetate	2.378	43	628554	51.580	ug/l	96
19) Methyl tert-butyl Ether	2.709	73	1386577	50.786	ug/l	100
20) Methylene Chloride	2.455	84	472123	53.373	ug/l	95
21) trans-1,2-Dichloroethene	2.700	96	426028	46.707	ug/l	97
22) Diisopropyl ether	3.214	45	1361630	46.500	ug/l	98
23) Vinyl Acetate	3.185	43	6054952	236.375	ug/l	97
24) 1,1-Dichloroethane	3.114	63	797976	44.562	ug/l	99
25) 2-Butanone	3.864	43	1833262	278.360	ug/l	96
26) 2,2-Dichloropropane	3.809	77	654670	41.232	ug/l	99
27) cis-1,2-Dichloroethene	3.815	96	492190	48.927	ug/l	96
28) Bromochloromethane	4.140	49	393882	49.825	ug/l	91
29) Tetrahydrofuran	4.233	42	1063152	257.902	ug/l	97
30) Chloroform	4.275	83	827141	44.235	ug/l	99
31) Cyclohexane	4.581	56	629144	42.889	ug/l	99
32) 1,1,1-Trichloroethane	4.510	97	713673	44.086	ug/l	98
36) 1,1-Dichloropropene	4.741	75	527907	48.754	ug/l	98
37) Ethyl Acetate	3.973	43	626124	47.654	ug/l	96
38) Carbon Tetrachloride	4.732	117	603195	45.581	ug/l	98
39) Methylcyclohexane	6.044	83	639925	48.939	ug/l	99
40) Benzene	5.005	78	1727192	48.985	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.153	41	288855	48.677	ug/l		96
42) 1,2-Dichloroethane	5.037	62	580659	47.000	ug/l		98
43) Isopropyl Acetate	5.191	43	944896	52.745	ug/l		98
44) Trichloroethene	5.828	130	417489	51.312	ug/l		99
45) 1,2-Dichloropropane	6.085	63	439219	50.116	ug/l		97
46) Dibromomethane	6.224	93	336464	50.160	ug/l		97
47) Bromodichloromethane	6.423	83	661080	47.672	ug/l		99
48) Methyl methacrylate	6.294	41	446114	54.936	ug/l		96
49) 1,4-Dioxane	6.288	88	161118	1229.438	ug/l		96
51) 4-Methyl-2-Pentanone	7.146	43	3229046	273.983	ug/l		97
52) Toluene	7.307	92	1075327	52.600	ug/l		99
53) t-1,3-Dichloropropene	7.571	75	654044	54.120	ug/l		99
54) cis-1,3-Dichloropropene	6.944	75	717693	53.795	ug/l		96
55) 1,1,2-Trichloroethane	7.757	97	455956	49.741	ug/l		99
56) Ethyl methacrylate	7.712	69	659328	60.567	ug/l		96
57) 1,3-Dichloropropane	7.931	76	738511	51.050	ug/l		100
58) 2-Chloroethyl Vinyl ether	6.809	63	1583796	257.371	ug/l		97
59) 2-Hexanone	8.063	43	2540984	266.941	ug/l		96
60) Dibromochloromethane	8.166	129	523192	50.091	ug/l		99
61) 1,2-Dibromoethane	8.272	107	492305	52.515	ug/l		99
64) Tetrachloroethene	7.896	164	356008	49.940	ug/l		99
65) Chlorobenzene	8.802	112	1184240	49.953	ug/l		97
66) 1,1,1,2-Tetrachloroethane	8.895	131	420629	49.105	ug/l		99
67) Ethyl Benzene	8.934	91	1965281	54.765	ug/l		100
68) m/p-Xylenes	9.059	106	1594917	115.152	ug/l		99
69) o-Xylene	9.468	106	714698	58.277	ug/l		98
70) Styrene	9.484	104	1314322	50.578	ug/l		100
71) Bromoform	9.651	173	361962	54.097	ug/l	#	99
73) Isopropylbenzene	9.854	105	1910303	52.314	ug/l		100
74) N-amyl acetate	9.722	43	833773	57.243	ug/l		97
75) 1,1,2,2-Tetrachloroethane	10.166	83	743933	46.497	ug/l		99
76) 1,2,3-Trichloropropane	10.194	75	543913	47.449	ug/l		95
77) Bromobenzene	10.140	156	486251	51.325	ug/l		97
78) n-propylbenzene	10.278	91	2304429	51.822	ug/l		98
79) 2-Chlorotoluene	10.346	91	1410067	52.993	ug/l		99
80) 1,3,5-Trimethylbenzene	10.465	105	1631715	53.760	ug/l		100
81) trans-1,4-Dichloro-2-b...	9.928	75	255261	53.459	ug/l		97
82) 4-Chlorotoluene	10.461	91	1665368	53.976	ug/l		99
83) tert-Butylbenzene	10.789	119	1531956	50.617	ug/l		99
84) 1,2,4-Trimethylbenzene	10.838	105	1635985	55.520	ug/l		100
85) sec-Butylbenzene	11.011	105	1994966	49.696	ug/l		99
86) p-Isopropyltoluene	11.166	119	1686983	50.491	ug/l		99
87) 1,3-Dichlorobenzene	11.104	146	947921	49.438	ug/l		99
88) 1,4-Dichlorobenzene	11.194	146	963204	45.789	ug/l		98
89) n-Butylbenzene	11.577	91	1607017	50.362	ug/l		99
90) Hexachloroethane	11.818	117	339159	41.222	ug/l		100
91) 1,2-Dichlorobenzene	11.564	146	896118	50.024	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.349	75	157070	54.339	ug/l		94
93) 1,2,4-Trichlorobenzene	13.185	180	526372	51.259	ug/l		99
94) Hexachlorobutadiene	13.368	225	216529	40.581	ug/l		99
95) Naphthalene	13.423	128	1996722	60.159	ug/l		100
96) 1,2,3-Trichlorobenzene	13.664	180	547531	52.133	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

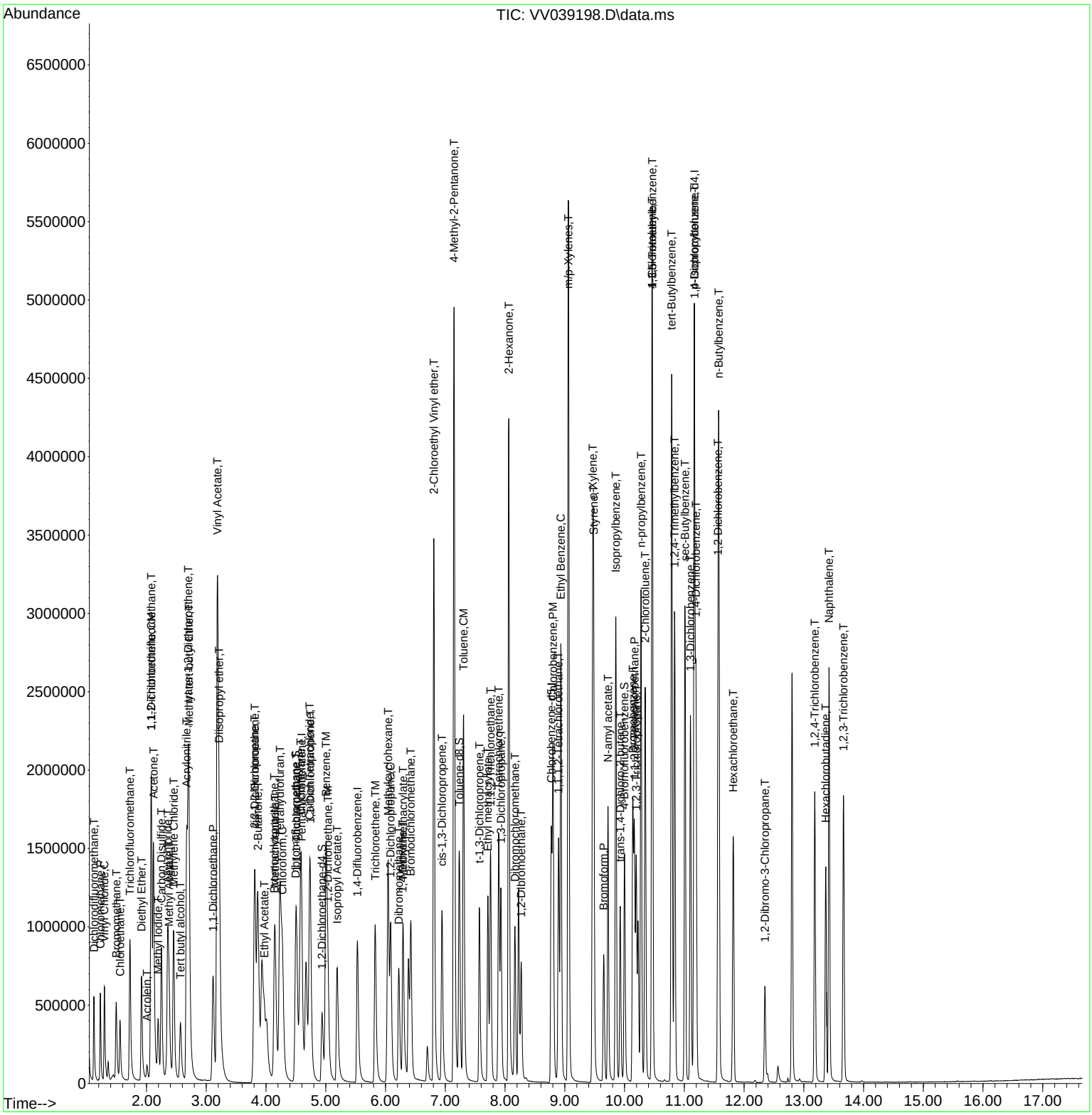
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

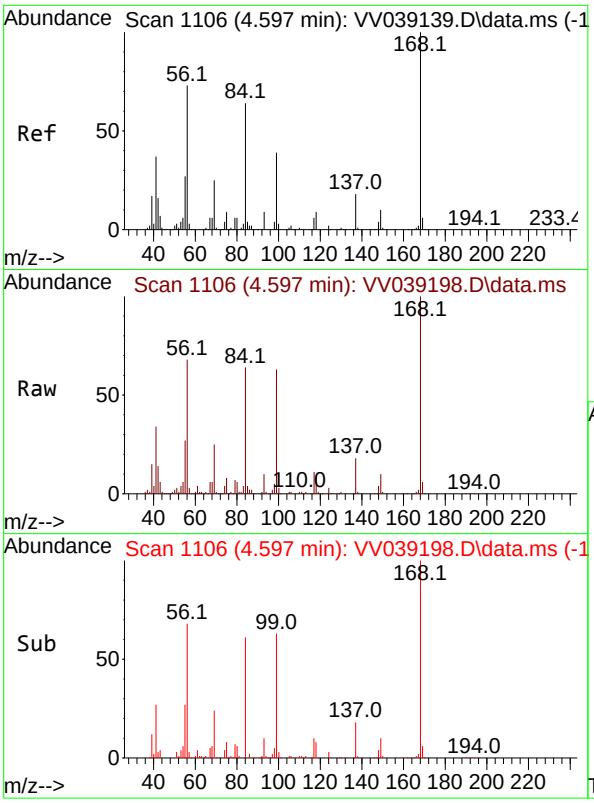
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



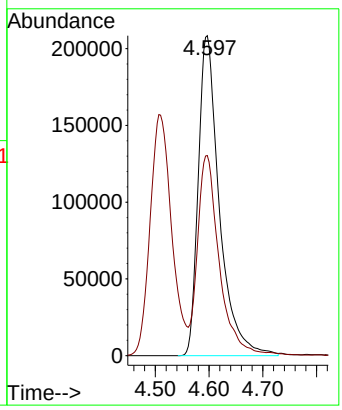


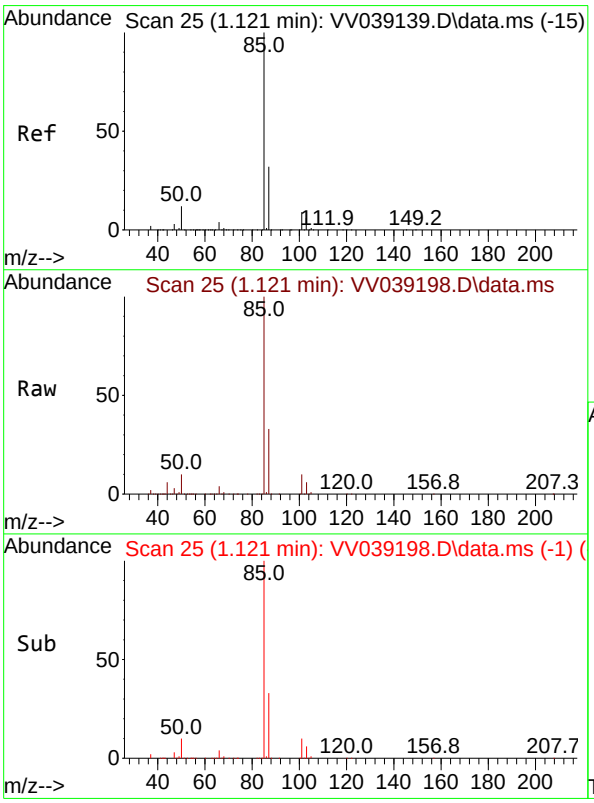
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 568268

Ion	Ratio	Lower	Upper
168	100		
99	61.9	49.6	74.4

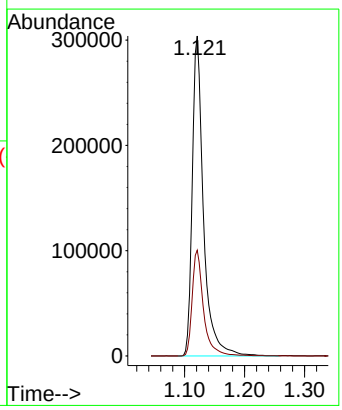


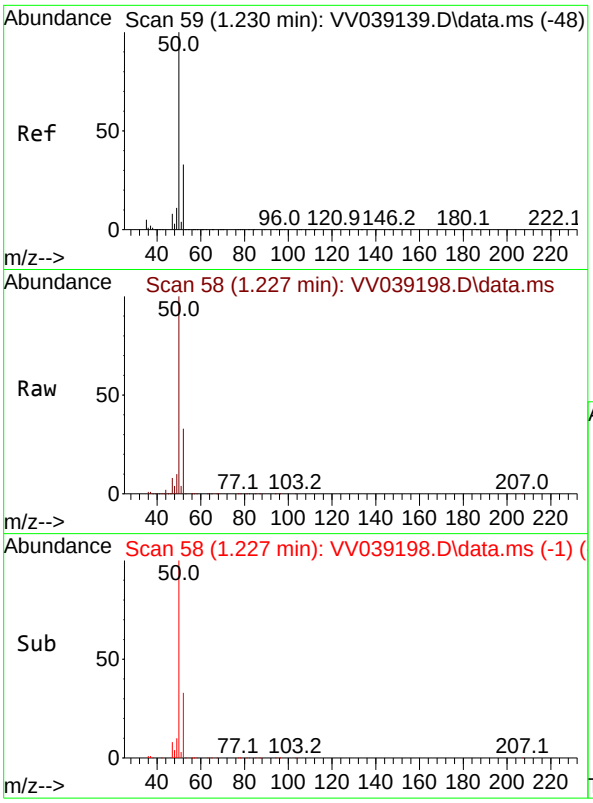


#2
Dichlorodifluoromethane
Concen: 44.079 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 85 Resp: 396522

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.0	47.9



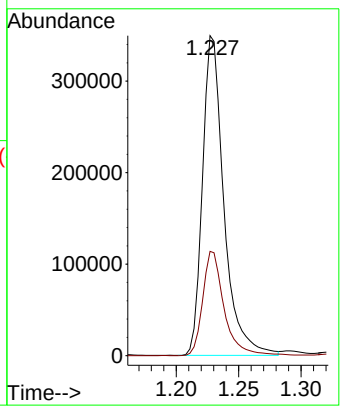


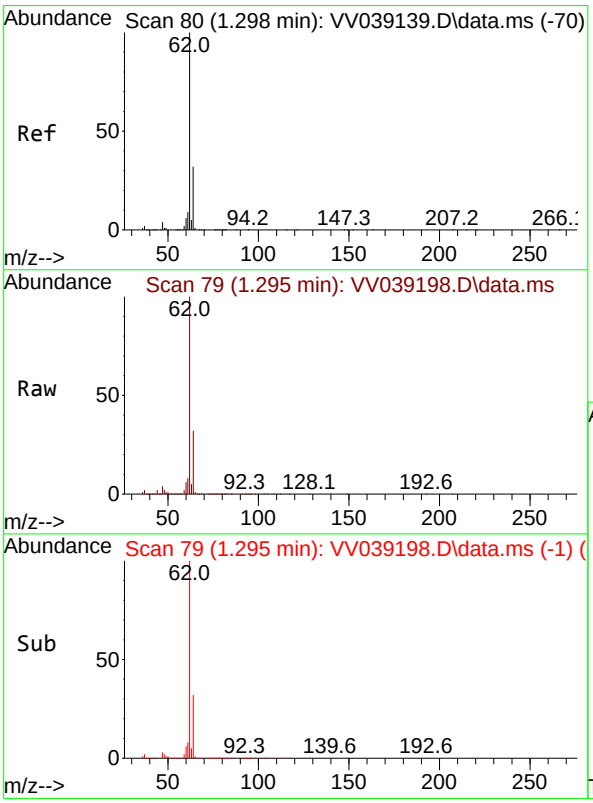
#3
Chloromethane
Concen: 43.290 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 418050

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.0	39.0

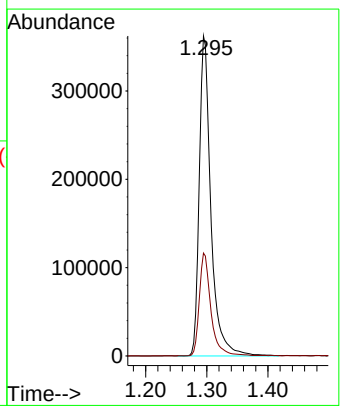


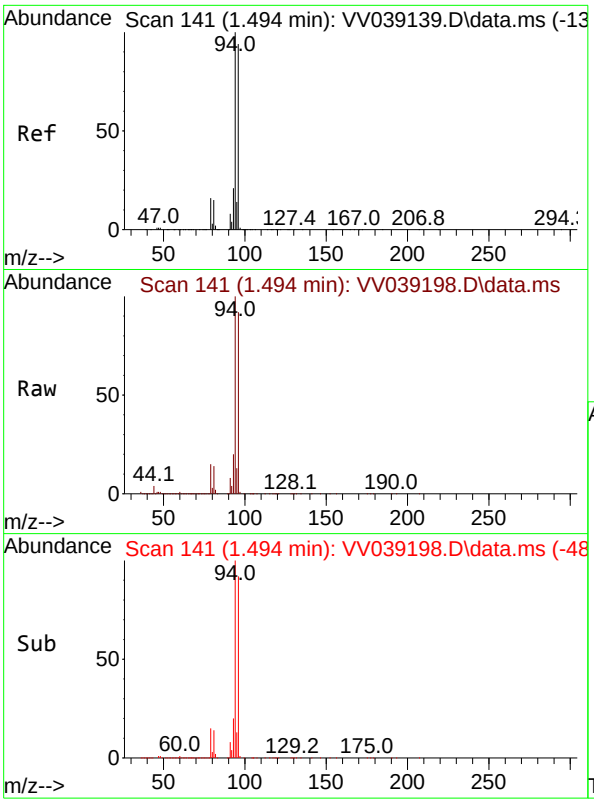


#4
Vinyl Chloride
Concen: 46.394 ug/l
RT: 1.295 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 62 Resp: 479647

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.6	38.4



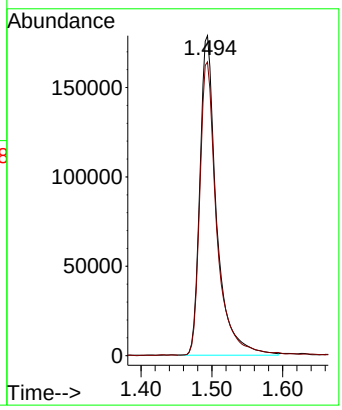


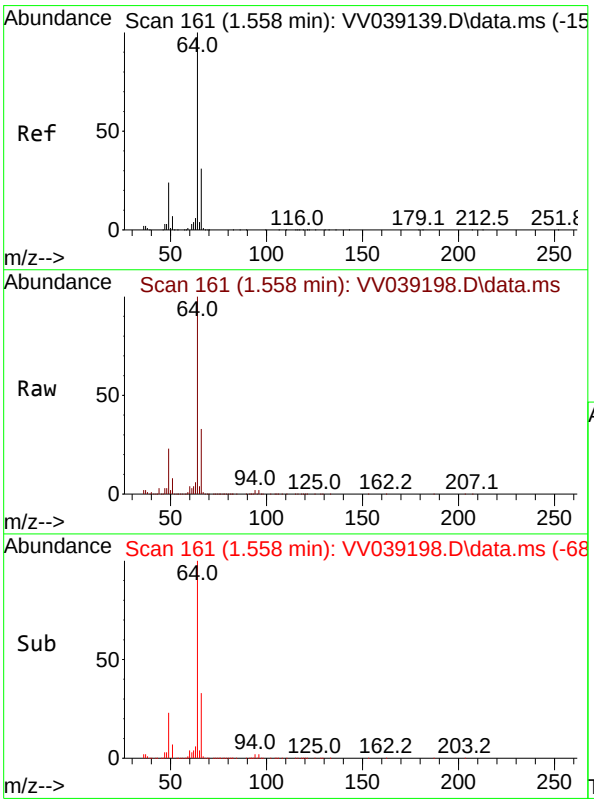
#5
Bromomethane
Concen: 44.774 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 291810

Ion	Ratio	Lower	Upper
94	100		
96	91.8	74.9	112.3

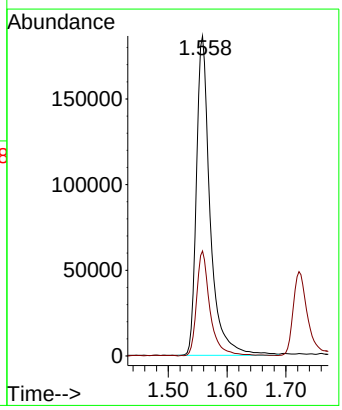


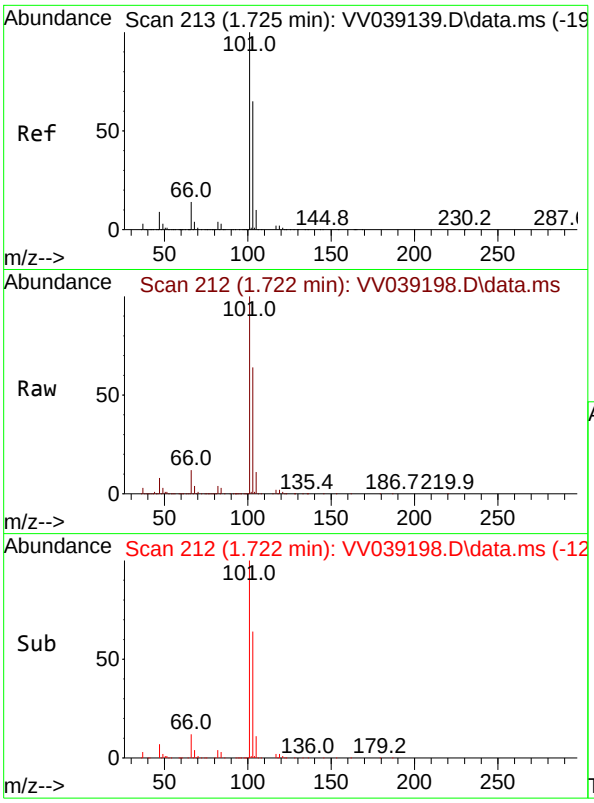


#6
Chloroethane
Concen: 49.614 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 64 Resp: 302144

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	36.8



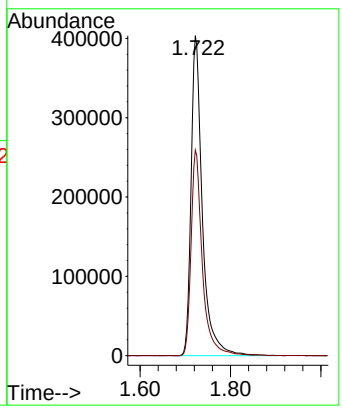


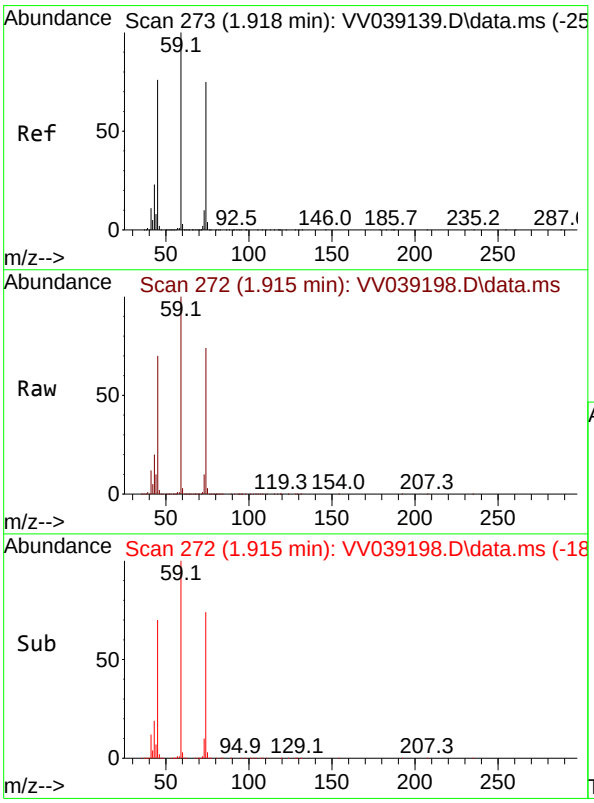
#7
Trichlorofluoromethane
Concen: 46.665 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 698490

Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.0	78.0

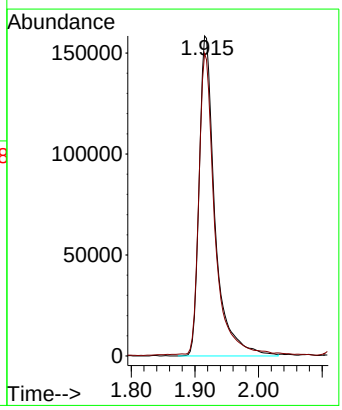


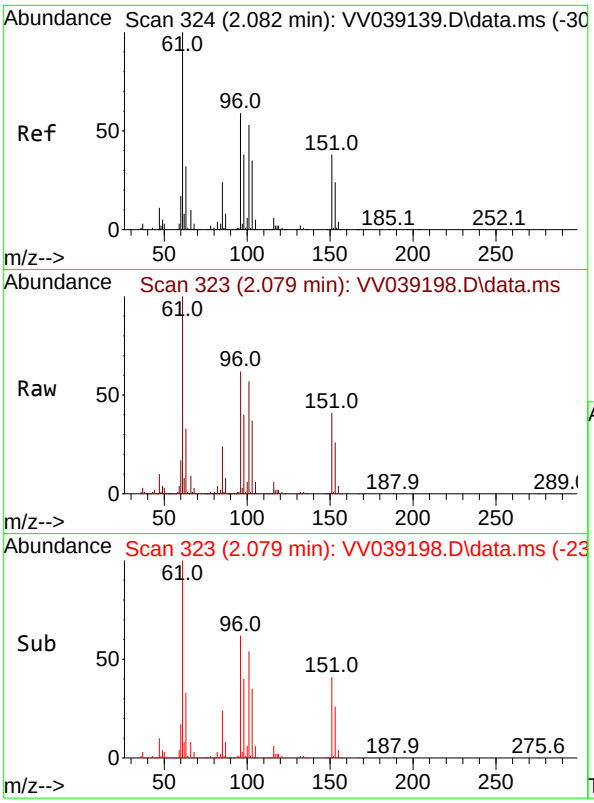


#8
Diethyl Ether
Concen: 49.434 ug/l
RT: 1.915 min Scan# 272
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 74 Resp: 274691

Ion	Ratio	Lower	Upper
74	100		
45	95.2	49.6	148.8



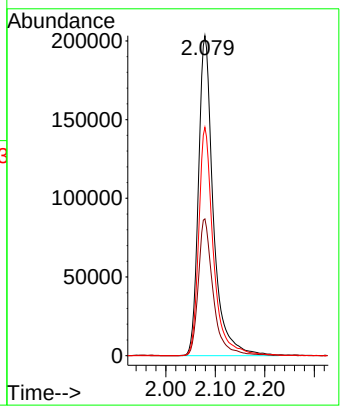


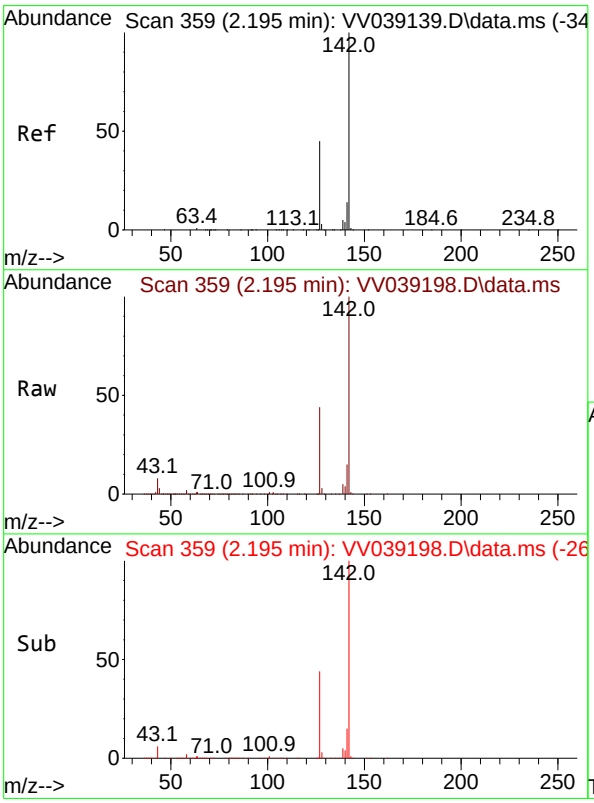
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.774 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 425486

Ion	Ratio	Lower	Upper
101	100		
85	42.8	36.2	54.2
151	70.8	56.3	84.5

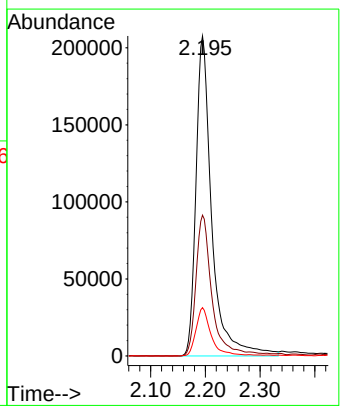


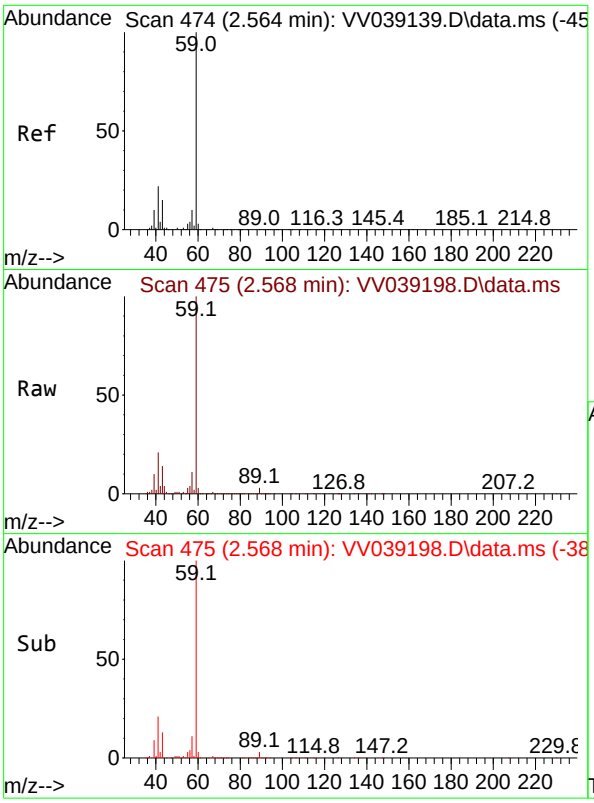


#10
Methyl Iodide
Concen: 49.215 ug/l
RT: 2.195 min Scan# 359
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:142 Resp: 417411

Ion	Ratio	Lower	Upper
142	100		
127	43.4	36.3	54.5
141	14.3	11.2	16.8



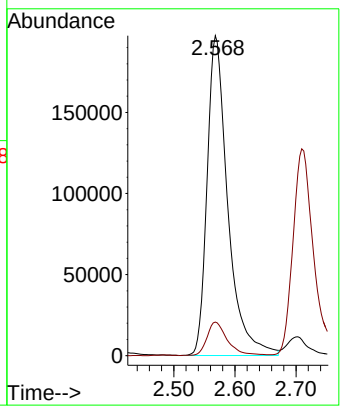


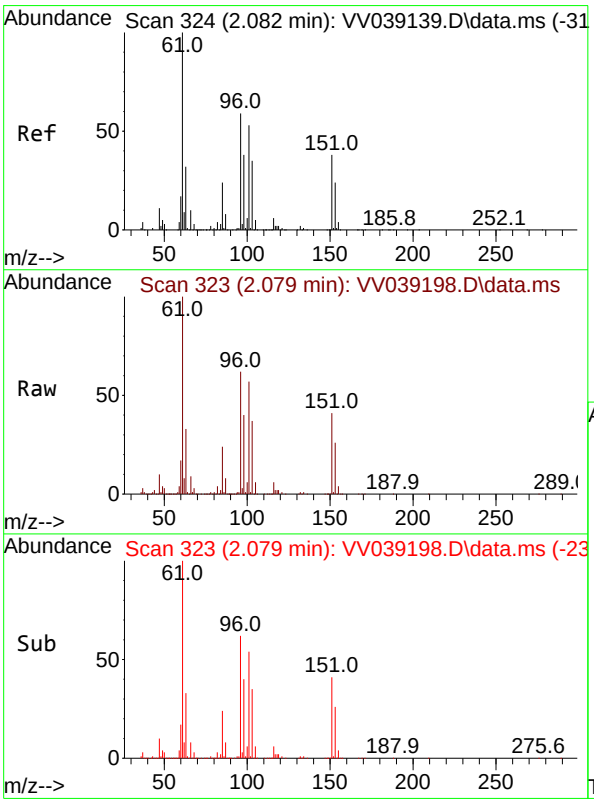
#11
Tert butyl alcohol
Concen: 267.036 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 464183

Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.8	11.8

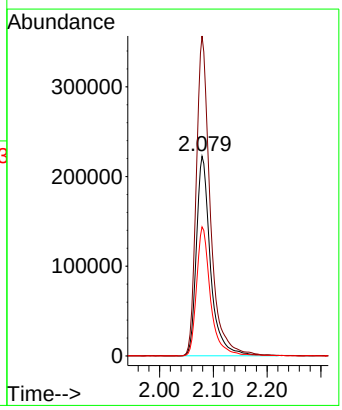


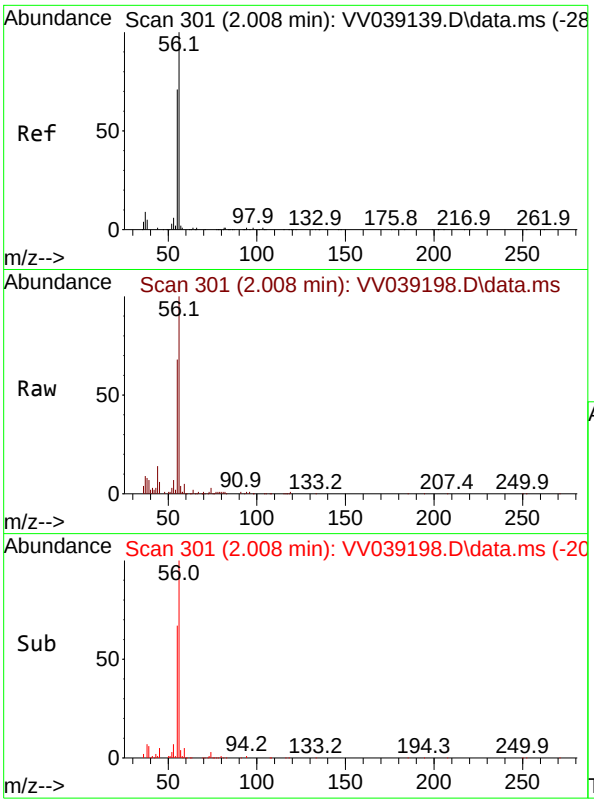


#12
1,1-Dichloroethene
Concen: 47.323 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 96 Resp: 405466

Ion	Ratio	Lower	Upper
96	100		
61	160.3	136.0	204.0
98	64.6	51.0	76.6



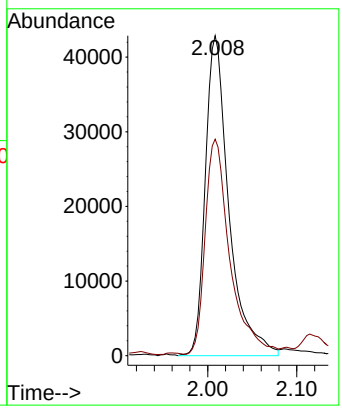


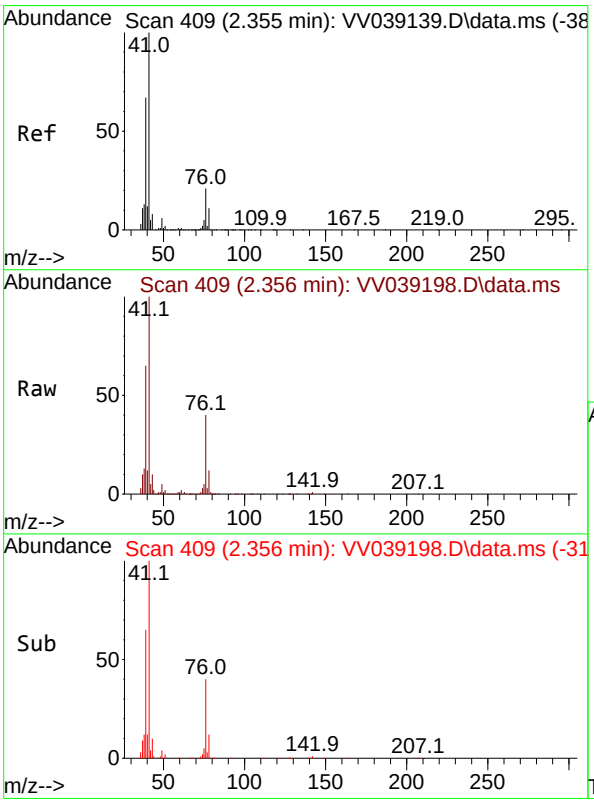
#13
Acrolein
Concen: 261.435 ug/l
RT: 2.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 78856

Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.2	84.4

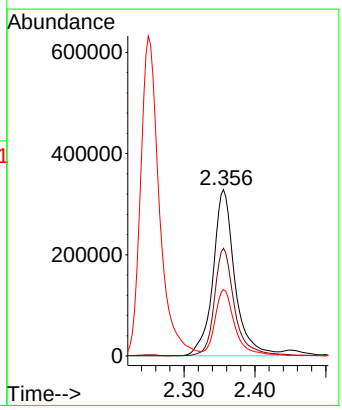


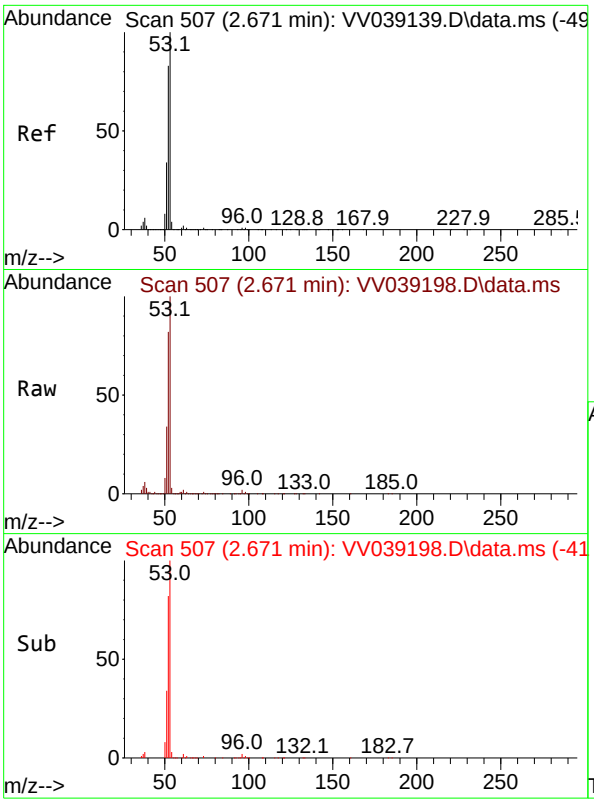


#14
Allyl chloride
Concen: 45.886 ug/l
RT: 2.356 min Scan# 409
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 41 Resp: 702274

Ion	Ratio	Lower	Upper
41	100		
39	59.6	51.0	76.6
76	36.0	28.2	42.4



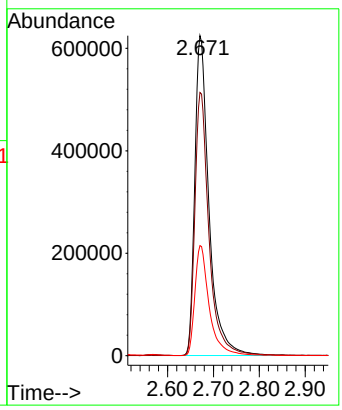


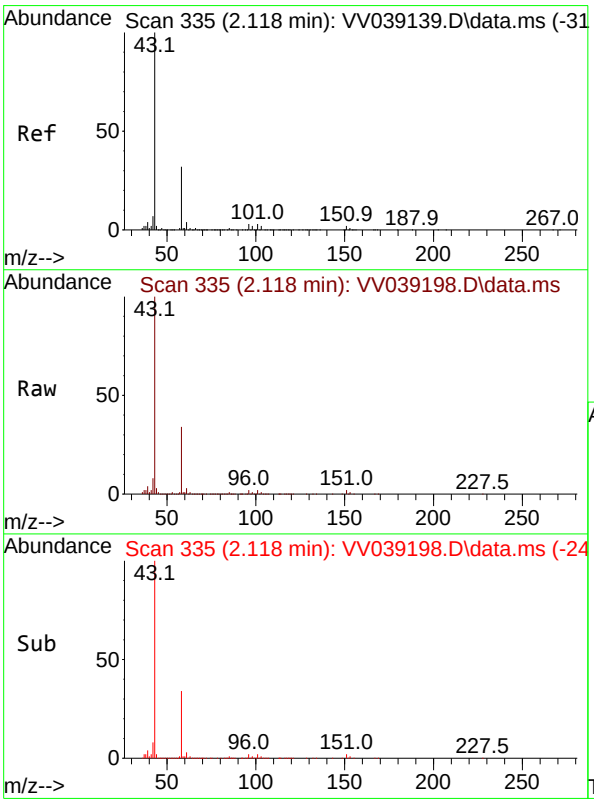
#15
Acrylonitrile
Concen: 241.006 ug/l
RT: 2.671 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 1342967

Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.1	99.1
51	34.7	28.5	42.7

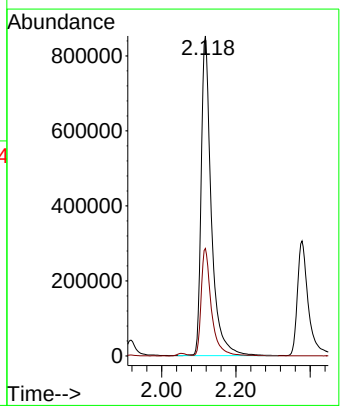


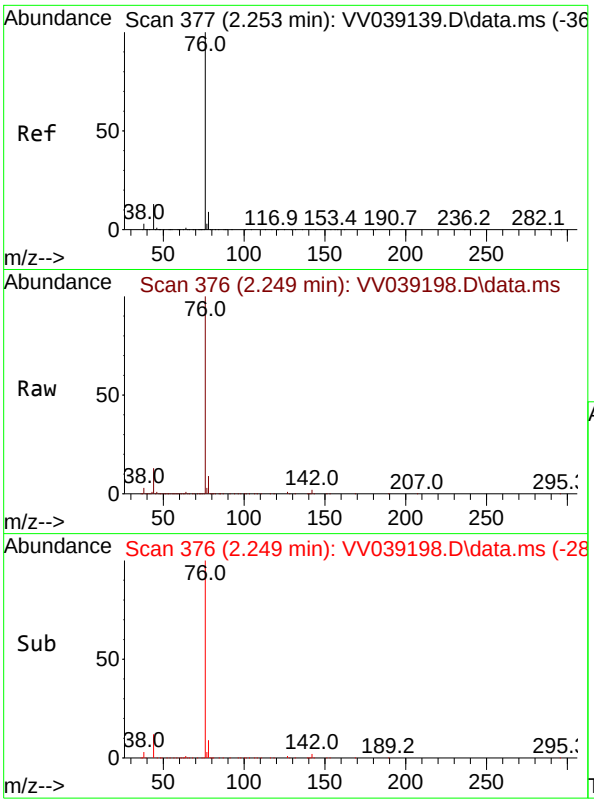


#16
Acetone
Concen: 325.476 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 43 Resp: 1614924

Ion	Ratio	Lower	Upper
43	100		
58	33.6	25.8	38.6



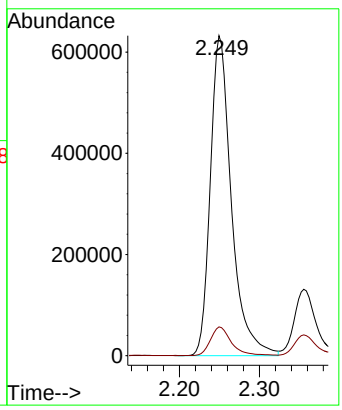


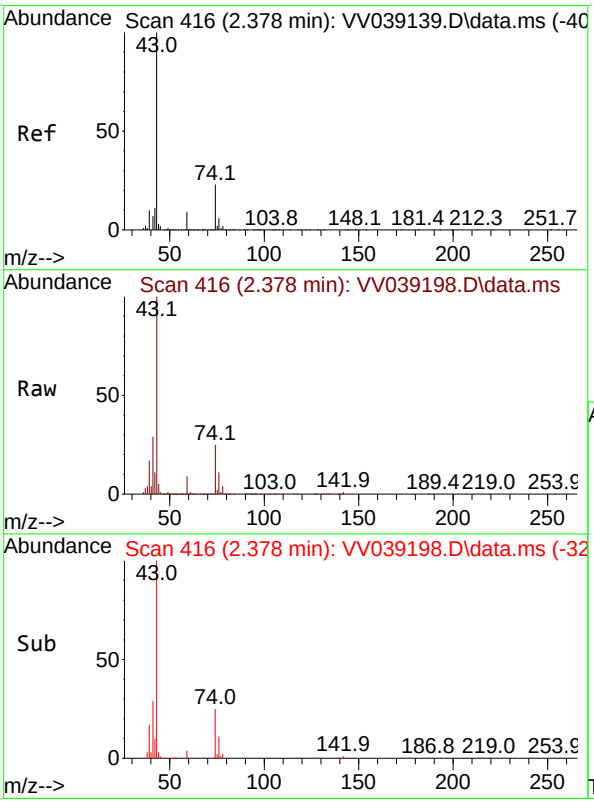
#17
Carbon Disulfide
Concen: 44.250 ug/l
RT: 2.249 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 1159506

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0

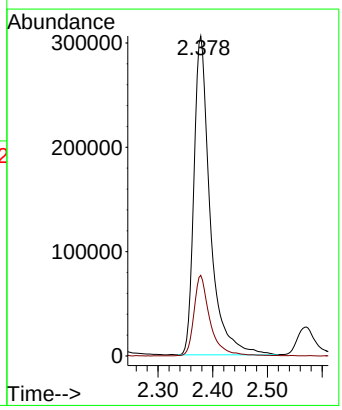


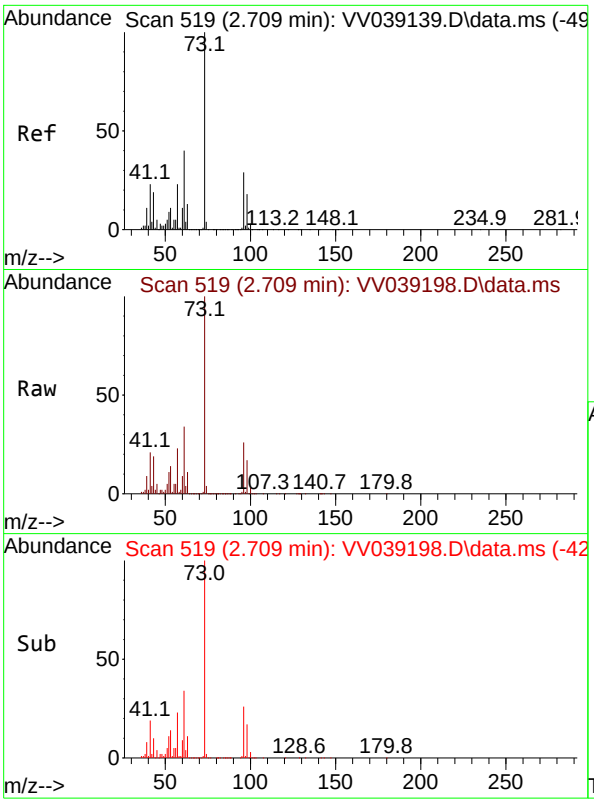


#18
Methyl Acetate
Concen: 51.580 ug/l
RT: 2.378 min Scan# 416
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 43 Resp: 628554

Ion	Ratio	Lower	Upper
43	100		
74	25.0	18.6	27.8



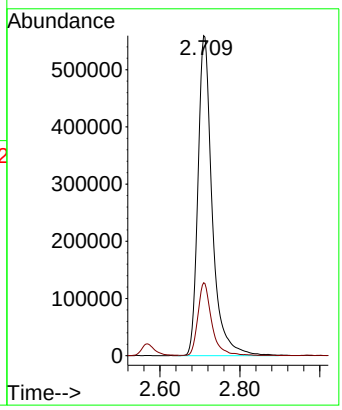


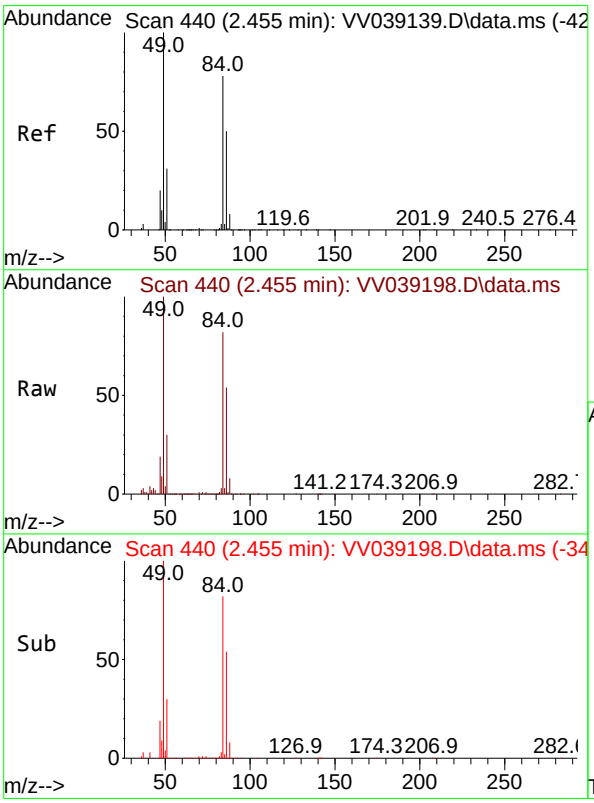
#19
Methyl tert-butyl Ether
Concen: 50.786 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 1386577

Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.2	27.4

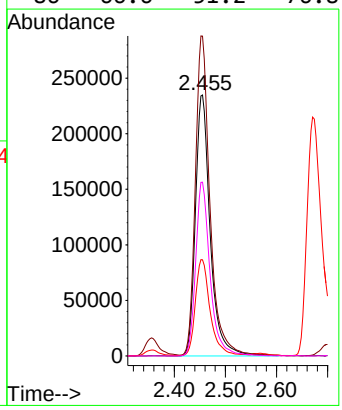


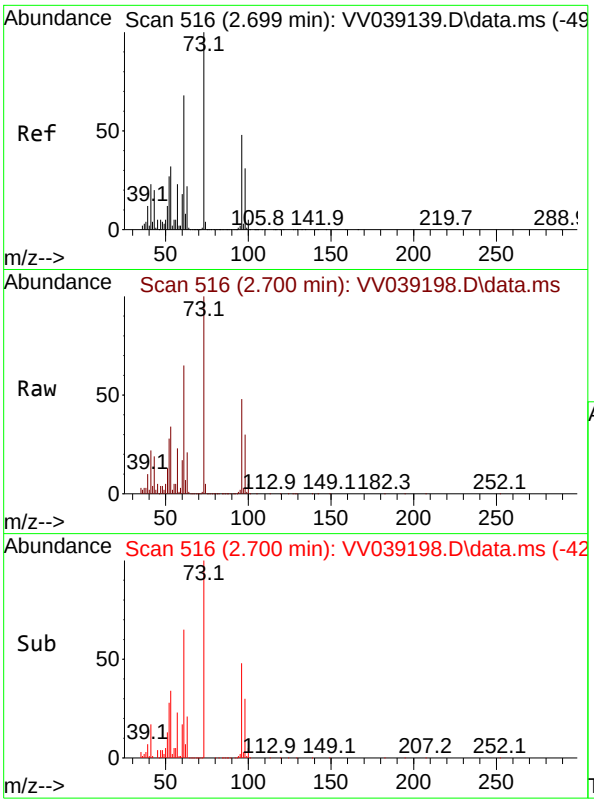


#20
Methylene Chloride
Concen: 53.373 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 84 Resp: 472123

Ion	Ratio	Lower	Upper
84	100		
49	122.3	102.8	154.2
51	36.6	31.9	47.9
86	66.6	51.2	76.8



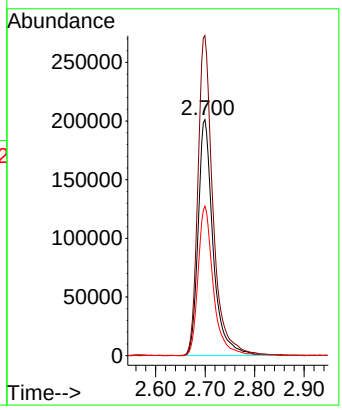


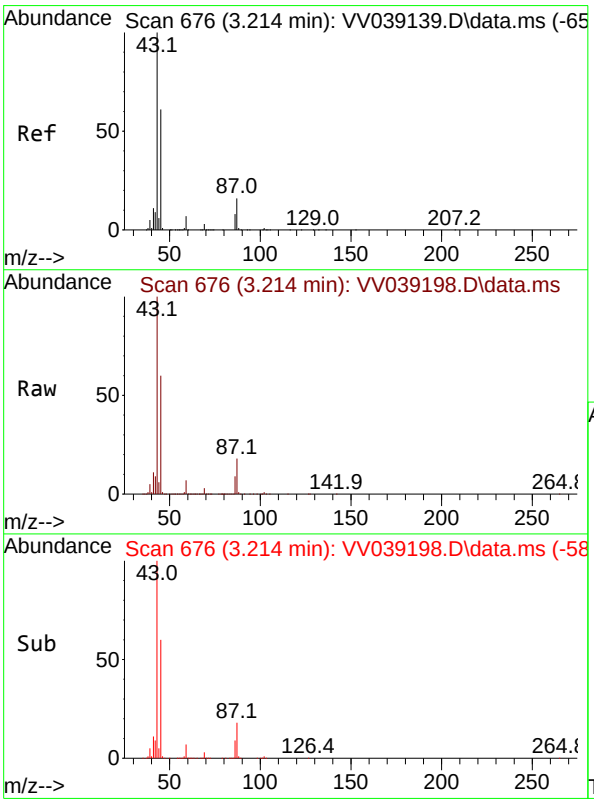
#21
trans-1,2-Dichloroethene
Concen: 46.707 ug/l
RT: 2.700 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 426028

Ion	Ratio	Lower	Upper
96	100		
61	135.6	112.8	169.2
98	63.4	51.1	76.7

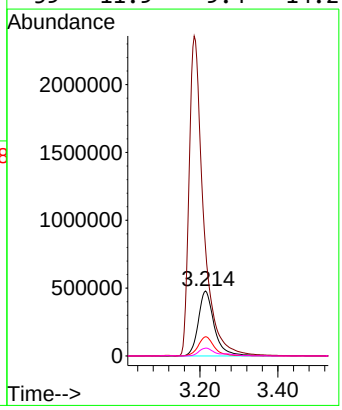


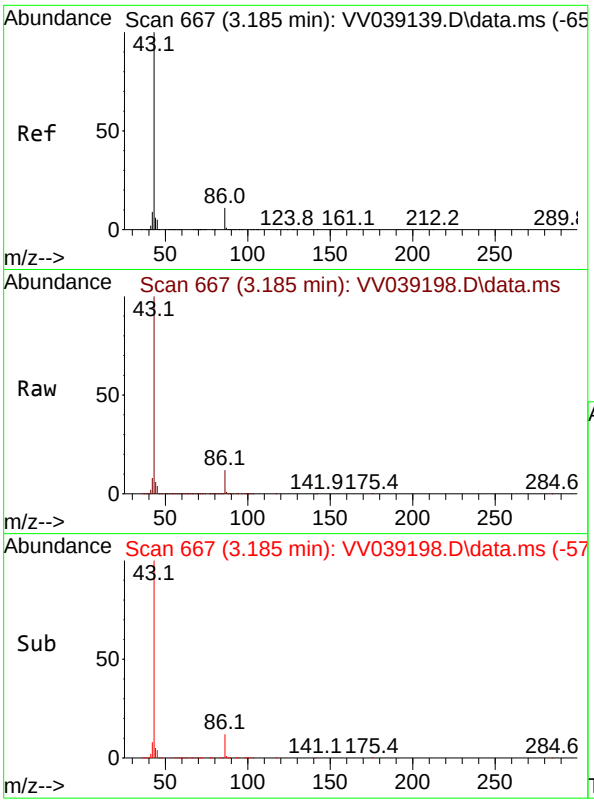


#22
Diisopropyl ether
Concen: 46.500 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 45 Resp: 1361630

Ion	Ratio	Lower	Upper
45	100		
43	165.8	130.9	196.3
87	29.5	21.1	31.7
59	11.9	9.4	14.2



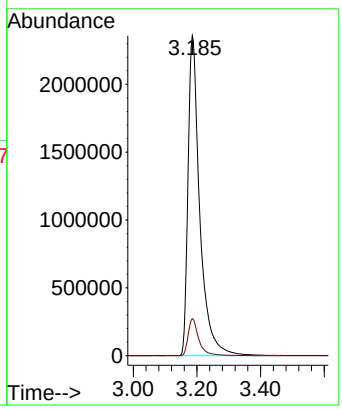


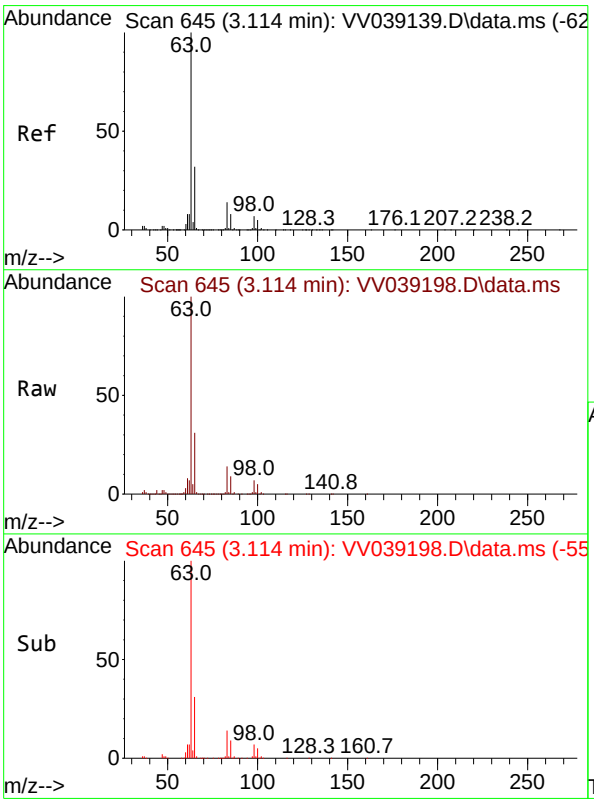
#23
Vinyl Acetate
Concen: 236.375 ug/l
RT: 3.185 min Scan# 6
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 6054952

Ion	Ratio	Lower	Upper
43	100		
86	11.5	8.4	12.6

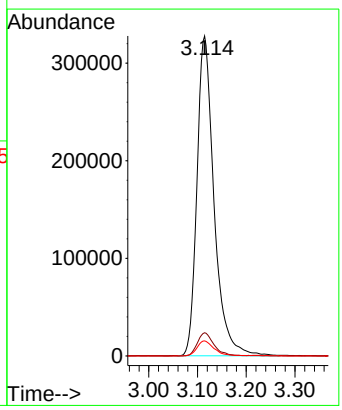


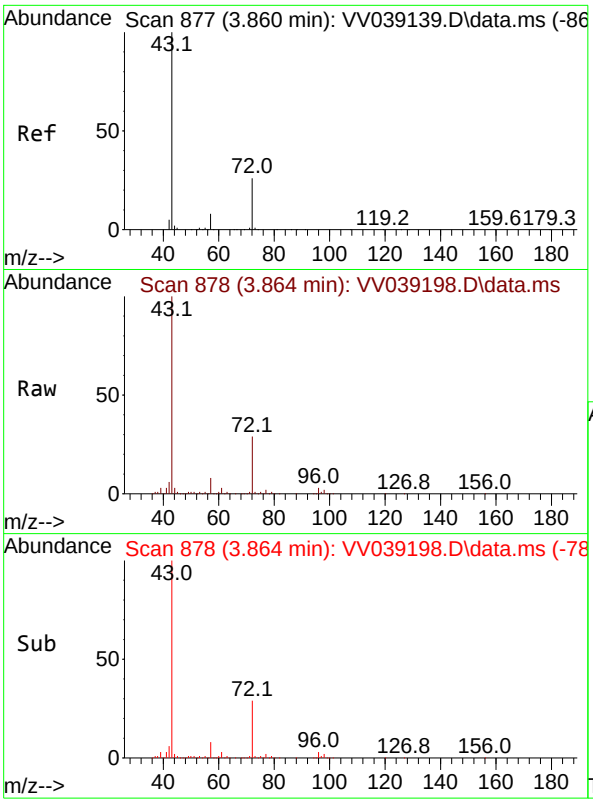


#24
1,1-Dichloroethane
Concen: 44.562 ug/l
RT: 3.114 min Scan# 645
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 63 Resp: 797976

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.4	10.2
100	4.7	2.2	6.6



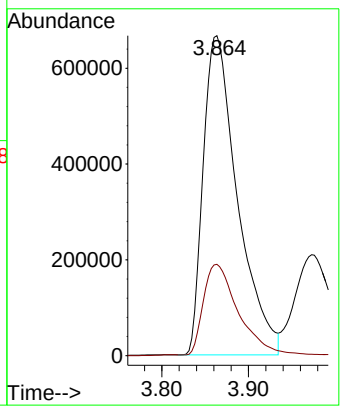


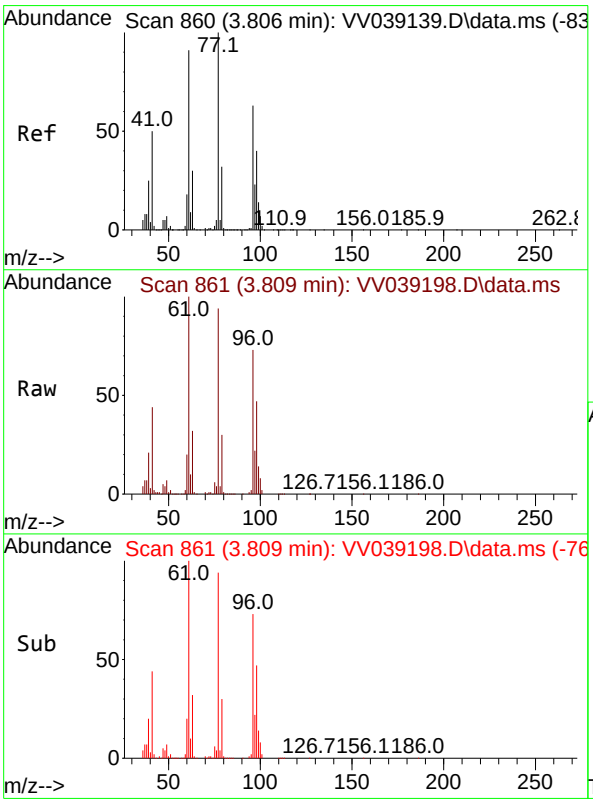
#25
2-Butanone
Concen: 278.360 ug/l
RT: 3.864 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1833262

Ion	Ratio	Lower	Upper
43	100		
72	28.3	21.0	31.6

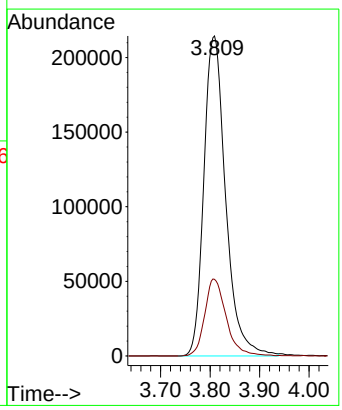


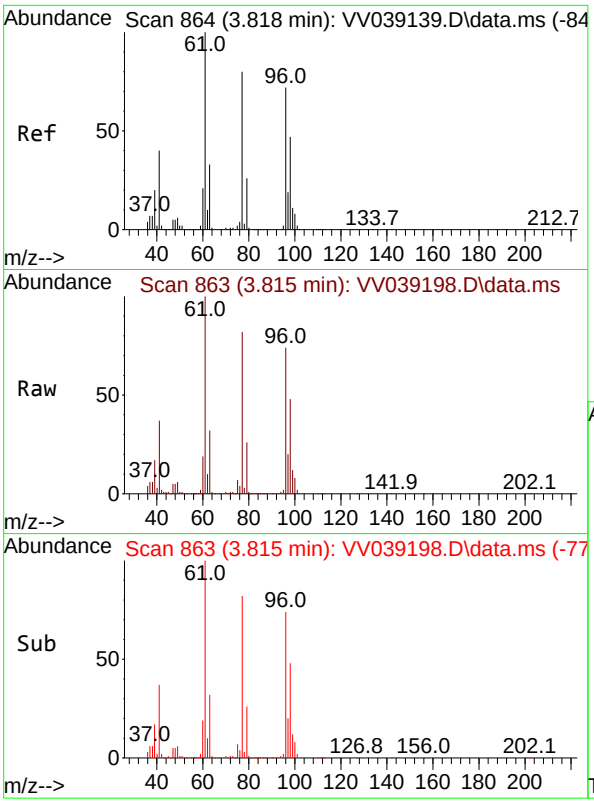


#26
2,2-Dichloropropane
Concen: 41.232 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 77 Resp: 654670

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.7



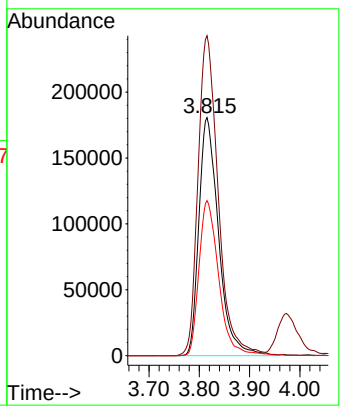


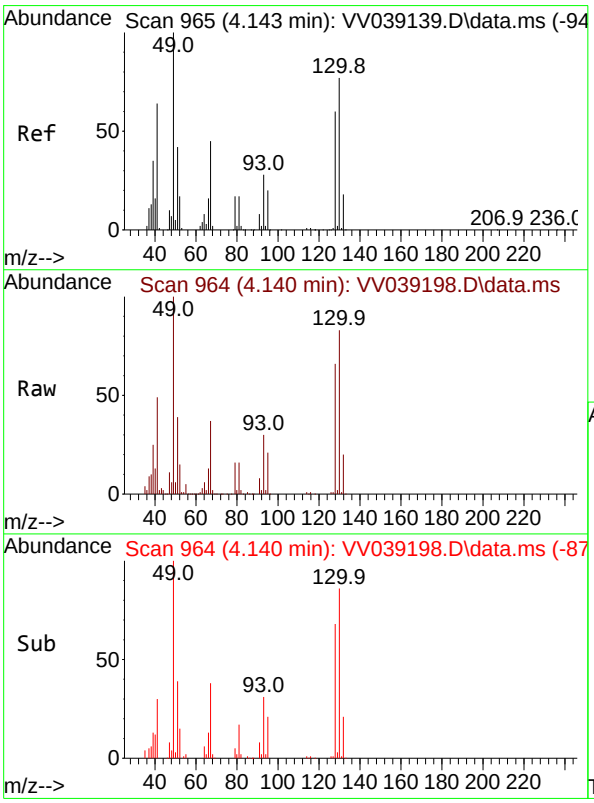
#27
cis-1,2-Dichloroethene
Concen: 48.927 ug/l
RT: 3.815 min Scan# 8
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 492190

Ion	Ratio	Lower	Upper
96	100		
61	137.7	0.0	286.4
98	65.2	0.0	126.6

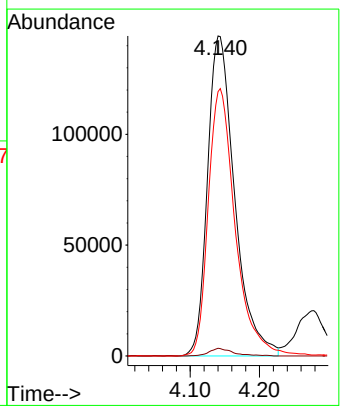


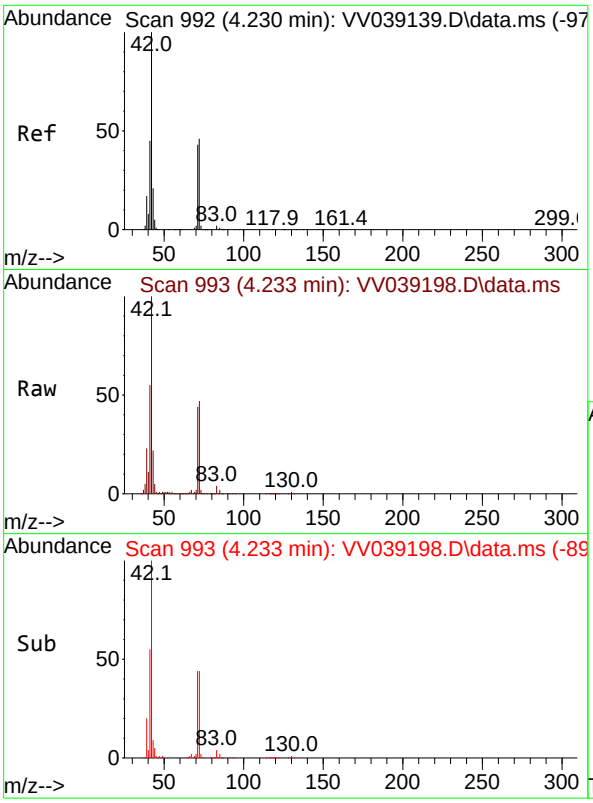


#28
Bromochloromethane
Concen: 49.825 ug/l
RT: 4.140 min Scan# 964
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 49 Resp: 393882

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.0	60.2	90.2



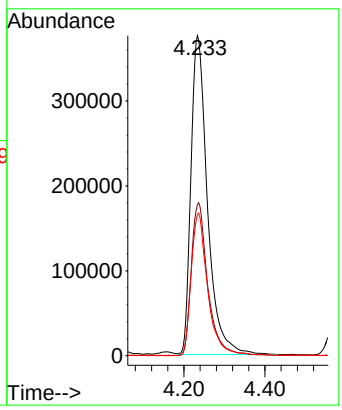


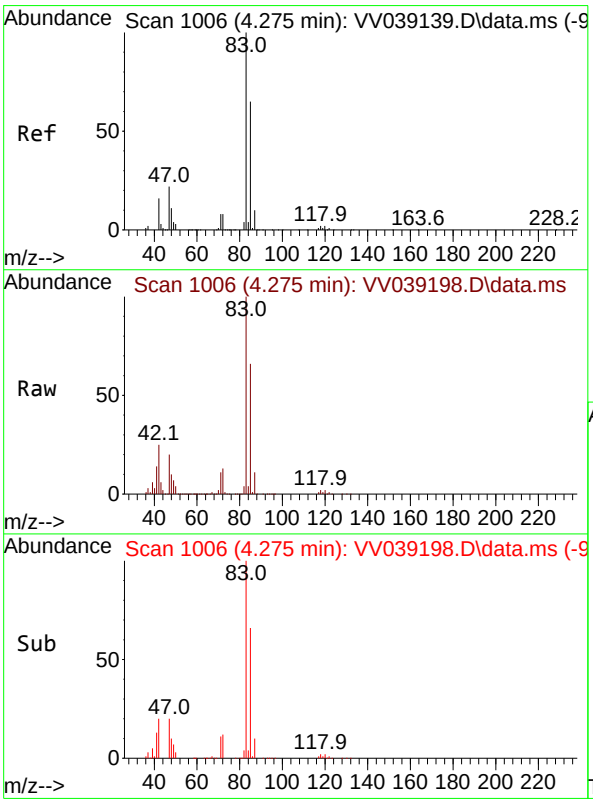
#29
Tetrahydrofuran
Concen: 257.902 ug/l
RT: 4.233 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 1063152

Ion	Ratio	Lower	Upper
42	100		
72	47.6	36.3	54.5
71	44.2	34.3	51.5

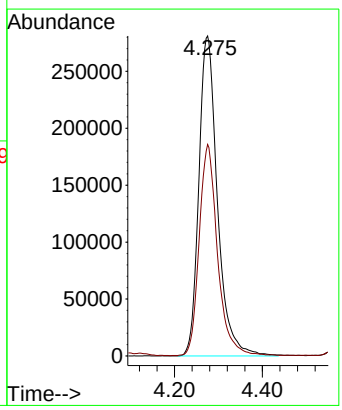


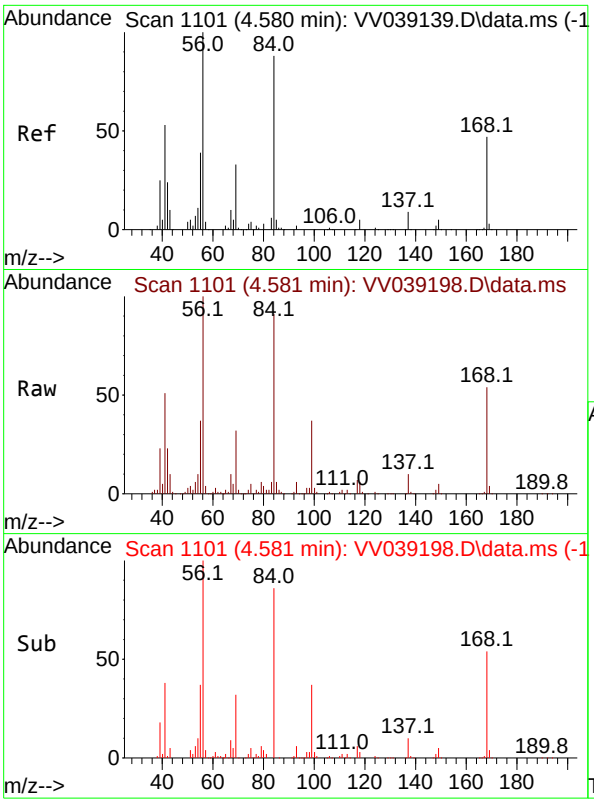


#30
Chloroform
Concen: 44.235 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 83 Resp: 827141

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.1	78.1



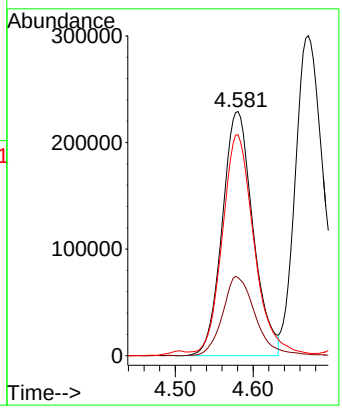


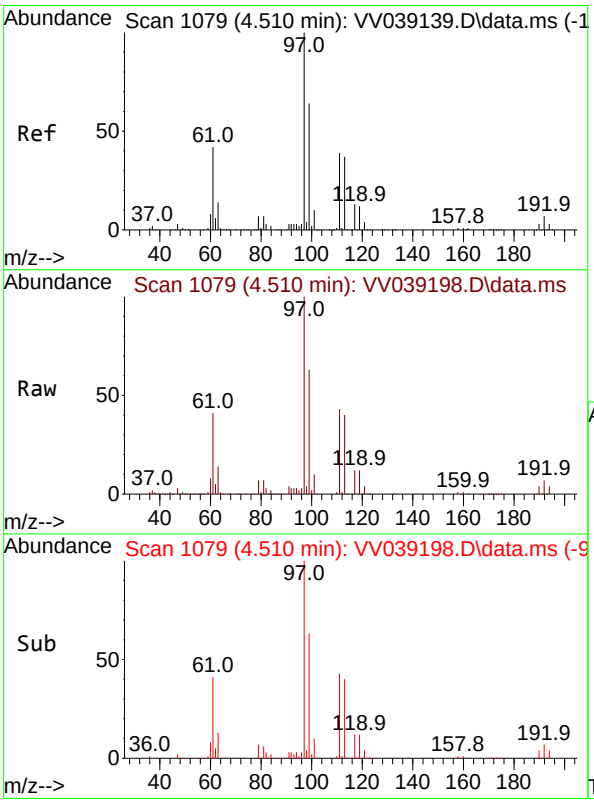
#31
Cyclohexane
Concen: 42.889 ug/l
RT: 4.581 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 629144

Ion	Ratio	Lower	Upper
56	100		
69	32.0	26.2	39.2
84	88.6	70.3	105.5

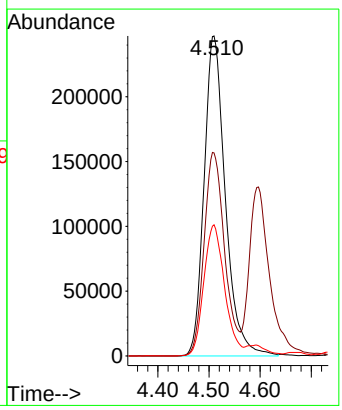


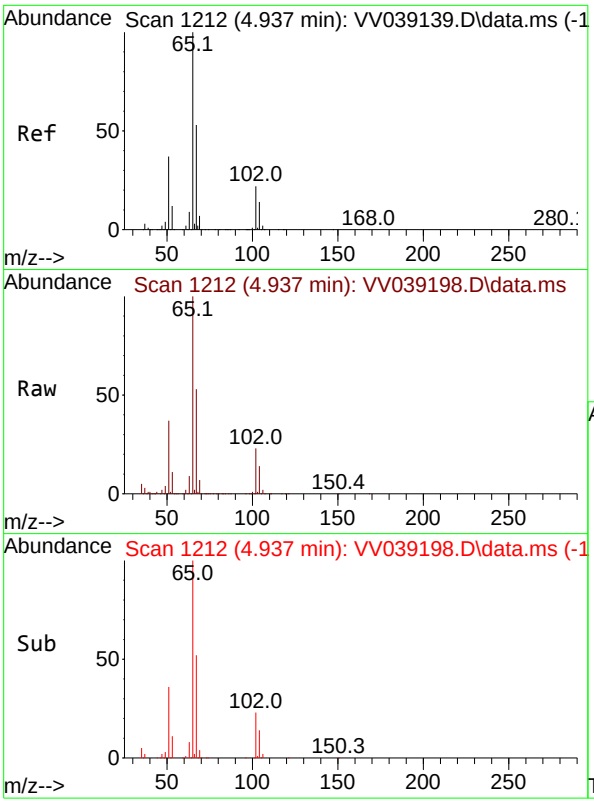


#32
1,1,1-Trichloroethane
Concen: 44.086 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 97 Resp: 713673

Ion	Ratio	Lower	Upper
97	100		
99	61.5	49.6	74.4
61	40.2	34.5	51.7



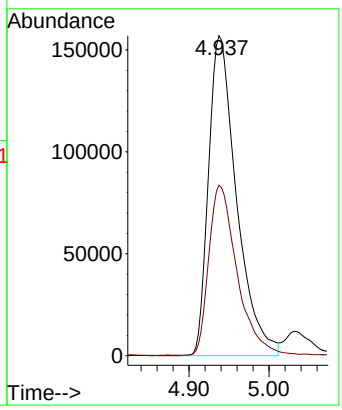


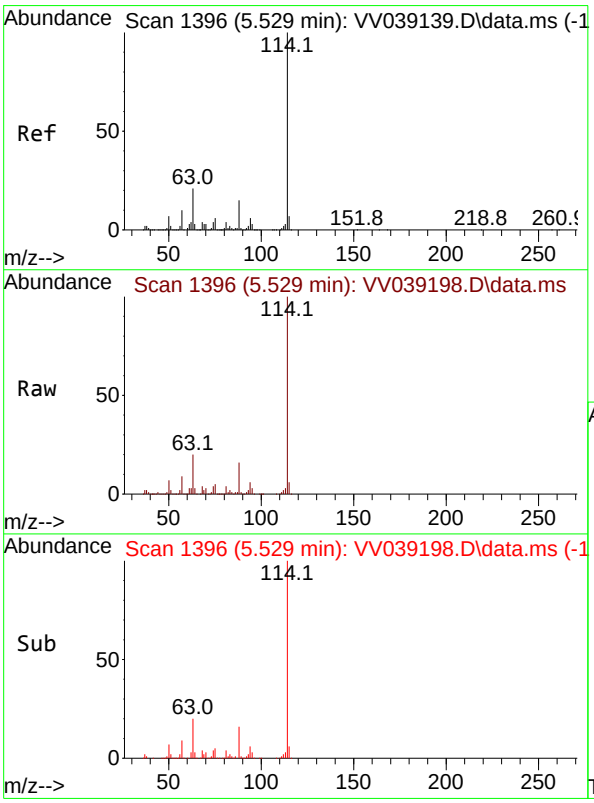
#33
1,2-Dichloroethane-d4
Concen: 46.473 ug/l
RT: 4.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 382222

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	107.0

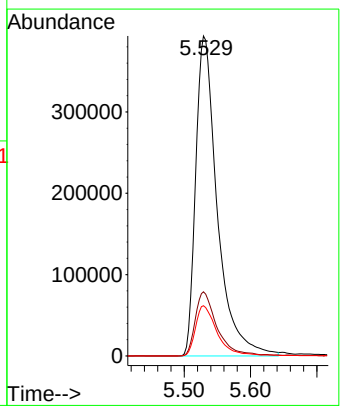


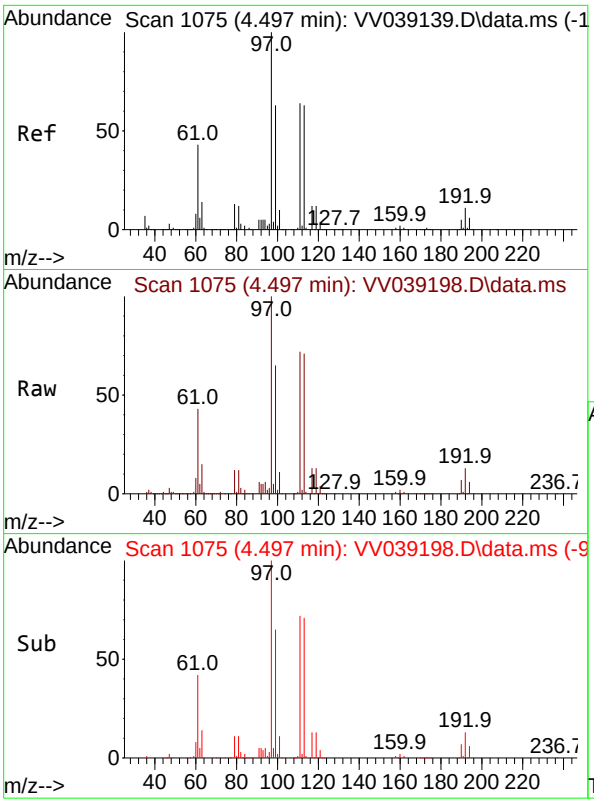


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:114 Resp: 890856

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.6
88	15.7	0.0	30.8



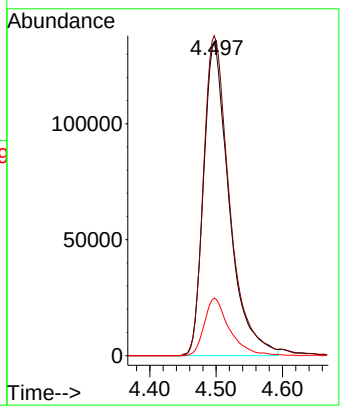


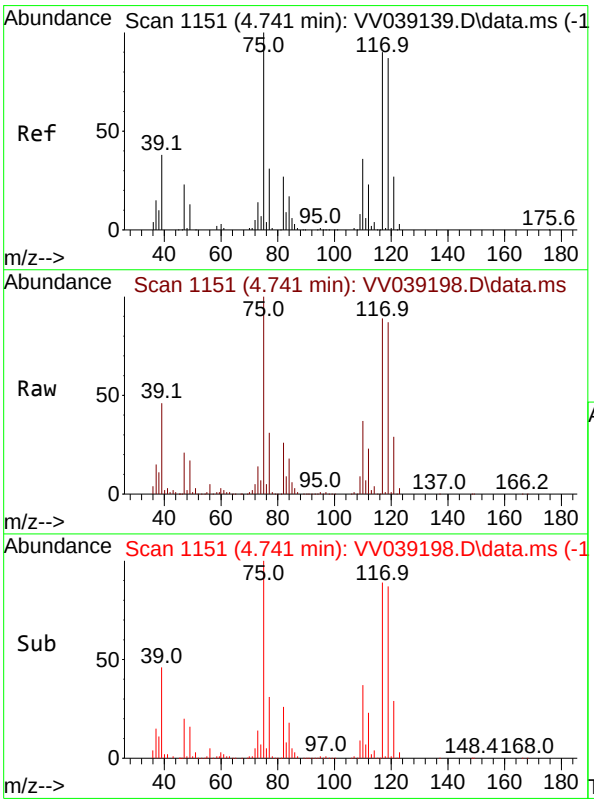
#35
Dibromofluoromethane
Concen: 50.482 ug/l
RT: 4.497 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 361542

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.4	123.6
192	18.2	13.8	20.8

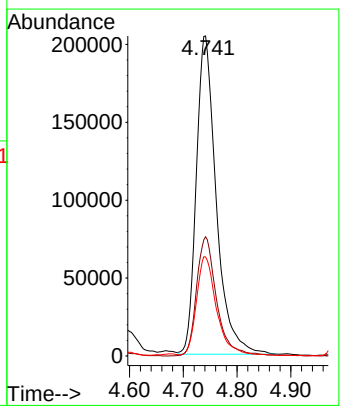


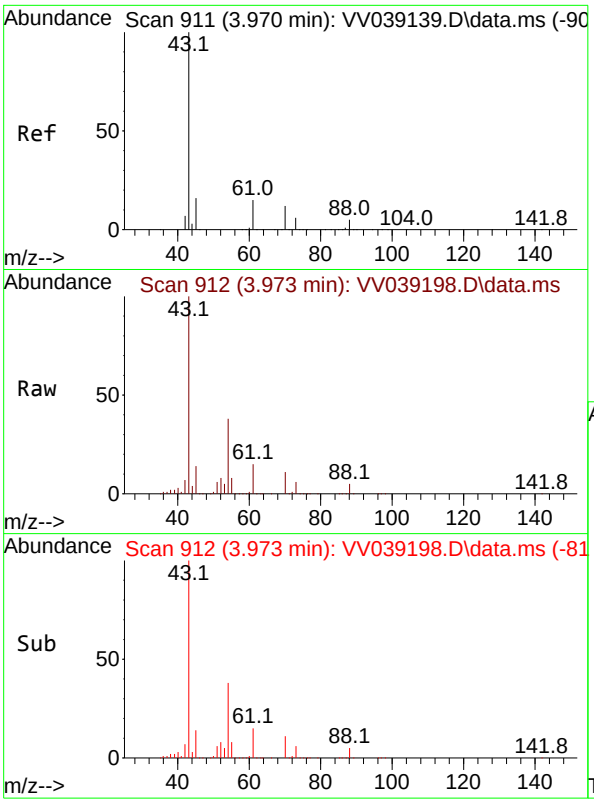


#36
1,1-Dichloropropene
Concen: 48.754 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 527907

Ion	Ratio	Lower	Upper
75	100		
110	37.7	18.1	54.1
77	31.2	24.8	37.2



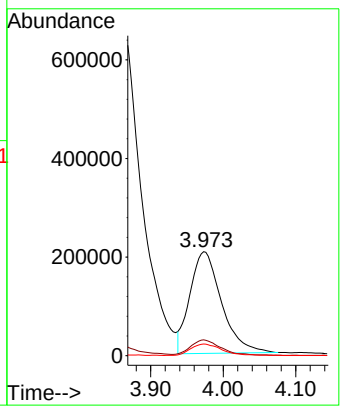


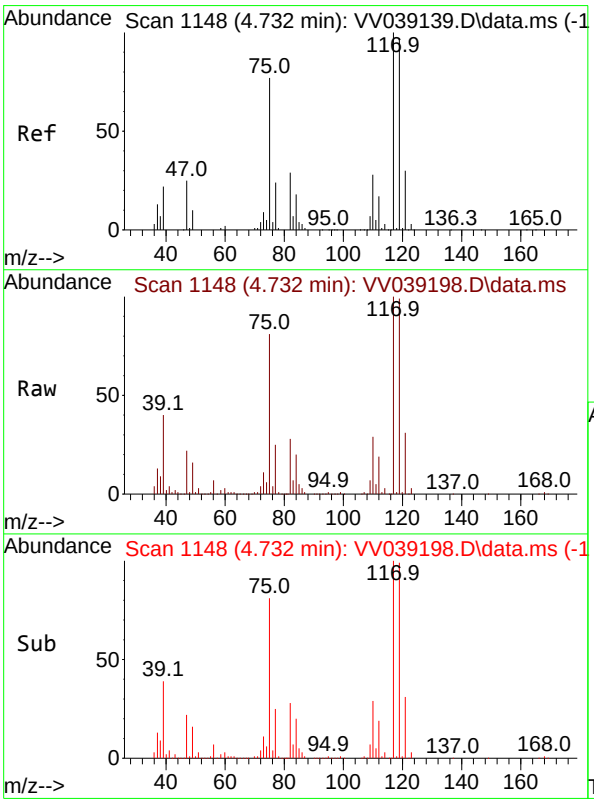
#37
Ethyl Acetate
Concen: 47.654 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 626124

Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.3	15.5
70	10.7	8.0	12.0

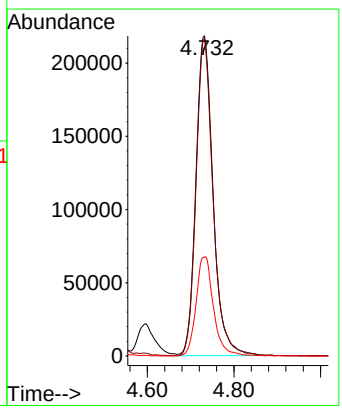


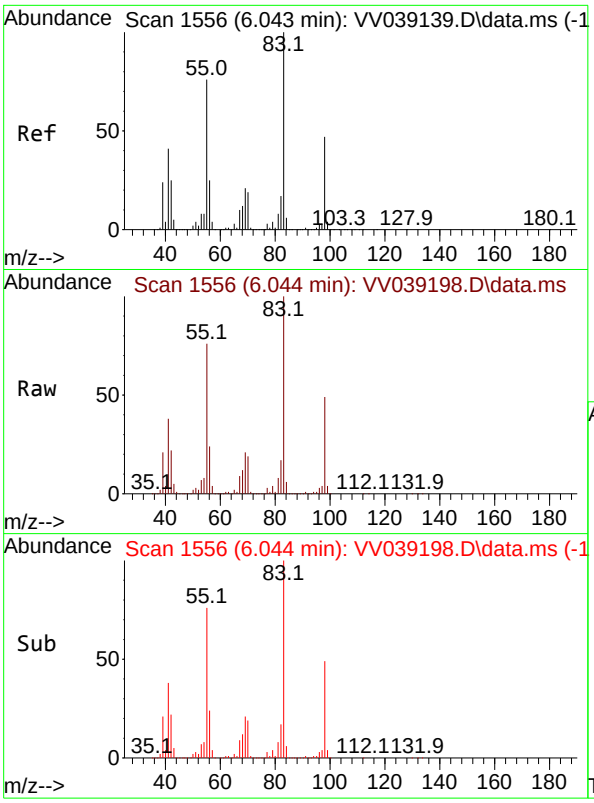


#38
Carbon Tetrachloride
Concen: 45.581 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:117 Resp: 603195

Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.2	115.8
121	30.9	24.2	36.2



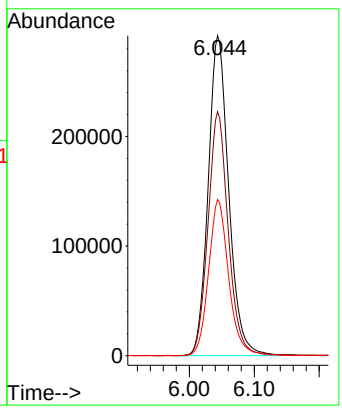


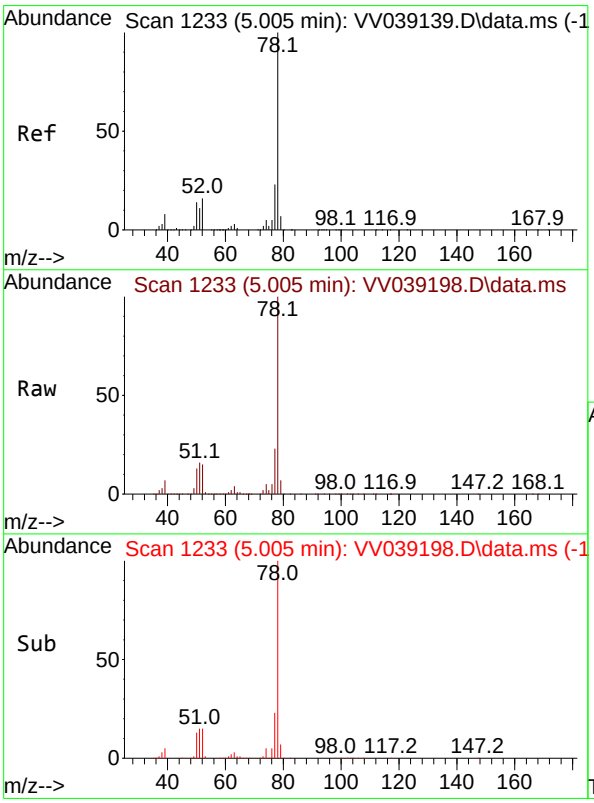
#39
Methylcyclohexane
Concen: 48.939 ug/l
RT: 6.044 min Scan# 1
Delta R.T. 0.001 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 639925

Ion	Ratio	Lower	Upper
83	100		
55	76.2	60.5	90.7
98	48.8	37.8	56.6

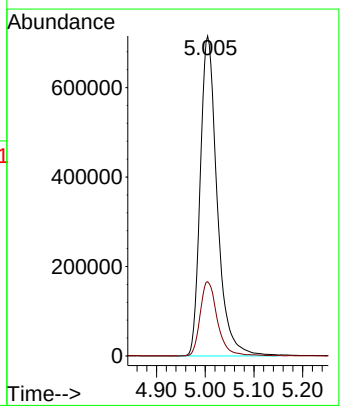


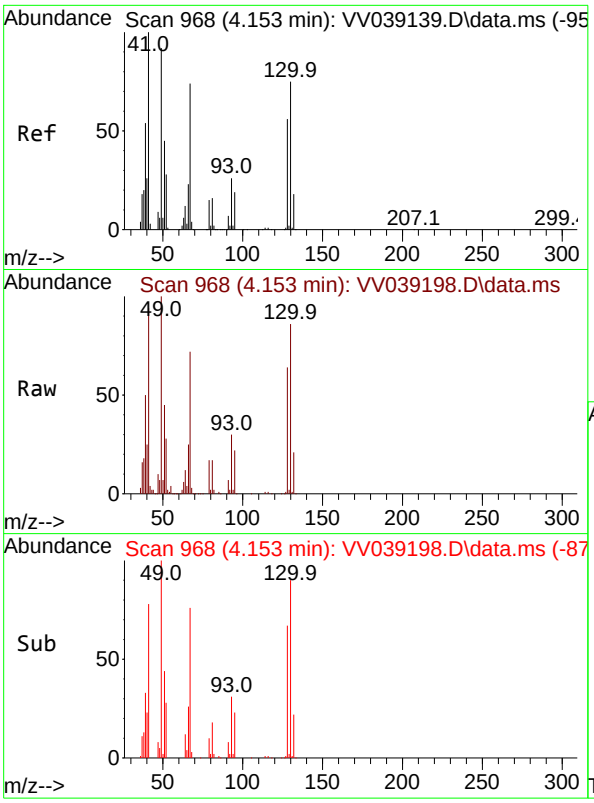


#40
Benzene
Concen: 48.985 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 78 Resp: 1727192

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1



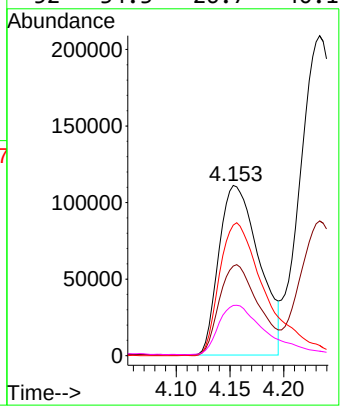


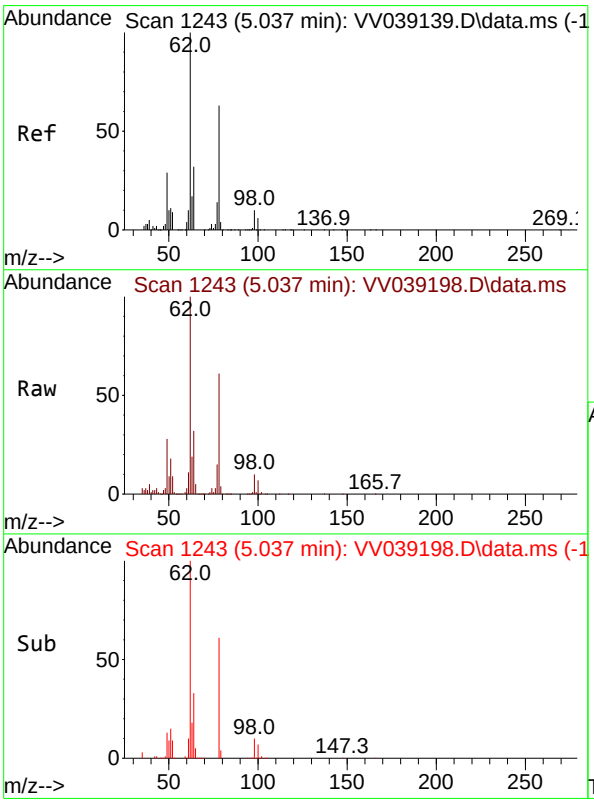
#41
Methacrylonitrile
Concen: 48.677 ug/l
RT: 4.153 min Scan# 9
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 288855

Ion	Ratio	Lower	Upper
41	100		
39	52.7	42.2	63.2
67	92.0	67.9	101.9
52	34.3	26.7	40.1

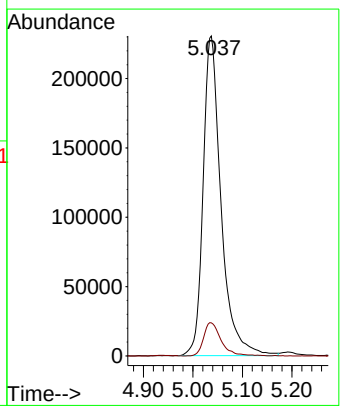


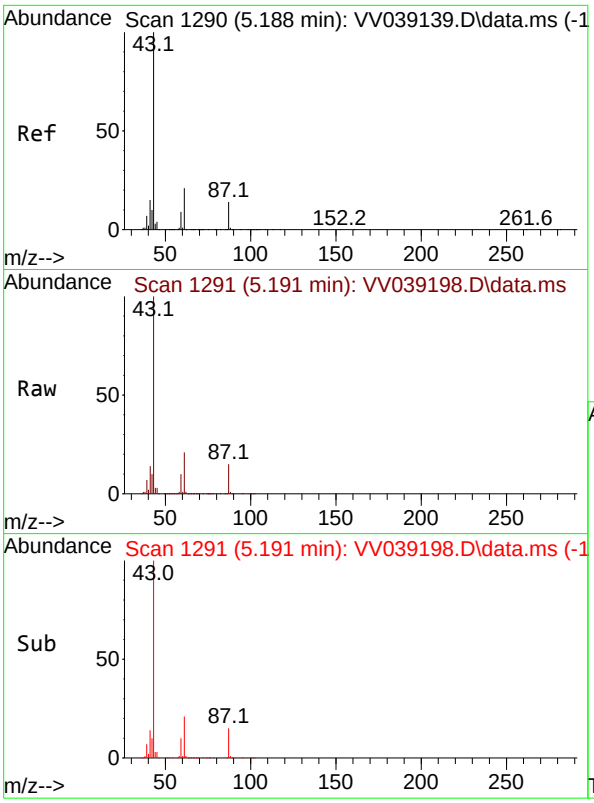


#42
1,2-Dichloroethane
Concen: 47.000 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 62 Resp: 580659

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.2



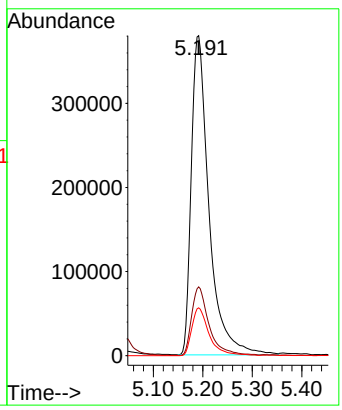


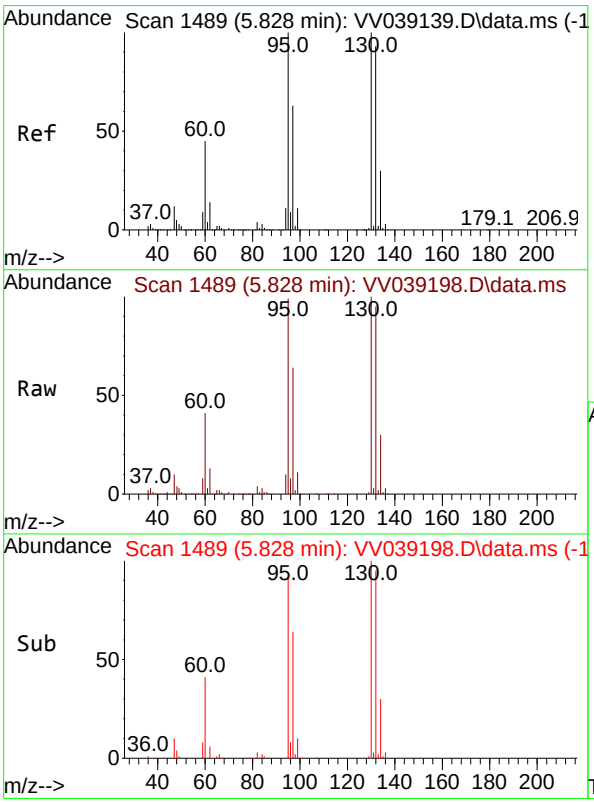
#43
Isopropyl Acetate
Concen: 52.745 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 944896

Ion	Ratio	Lower	Upper
43	100		
61	21.1	15.9	23.9
87	14.7	11.0	16.6

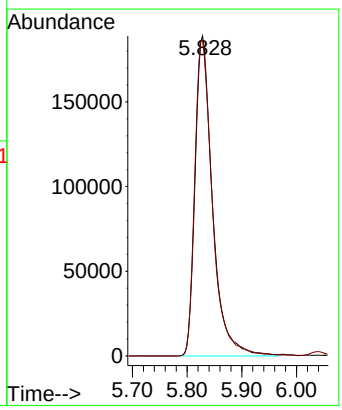


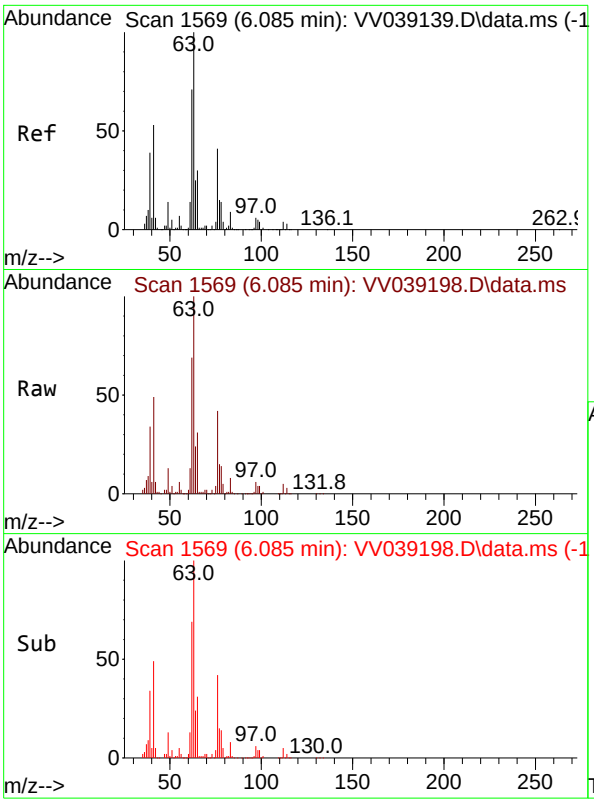


#44
Trichloroethene
Concen: 51.312 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:130 Resp: 417489

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	199.2



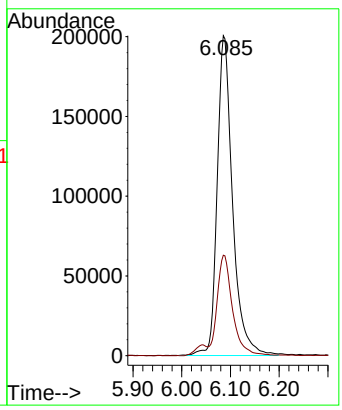


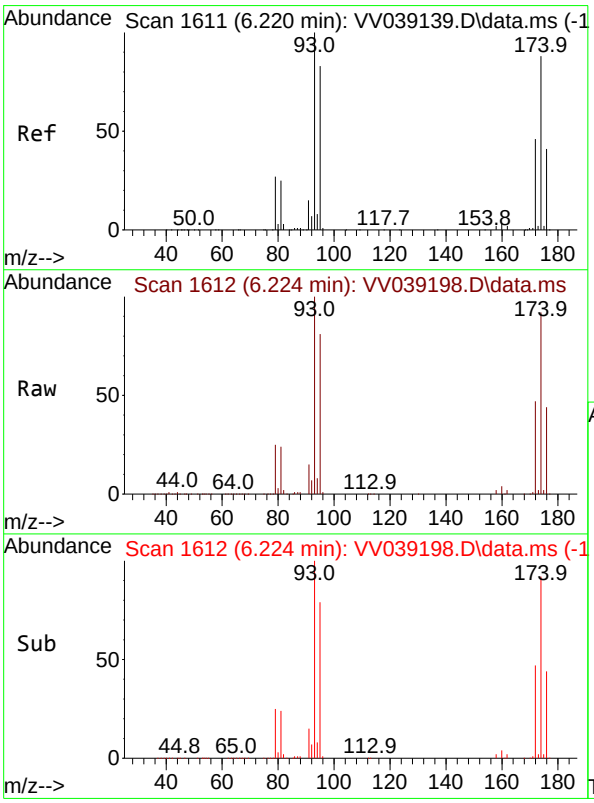
#45
1,2-Dichloropropane
Concen: 50.116 ug/l
RT: 6.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 439219

Ion	Ratio	Lower	Upper
63	100		
65	31.4	23.7	35.5

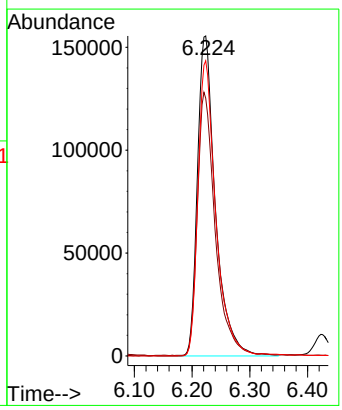


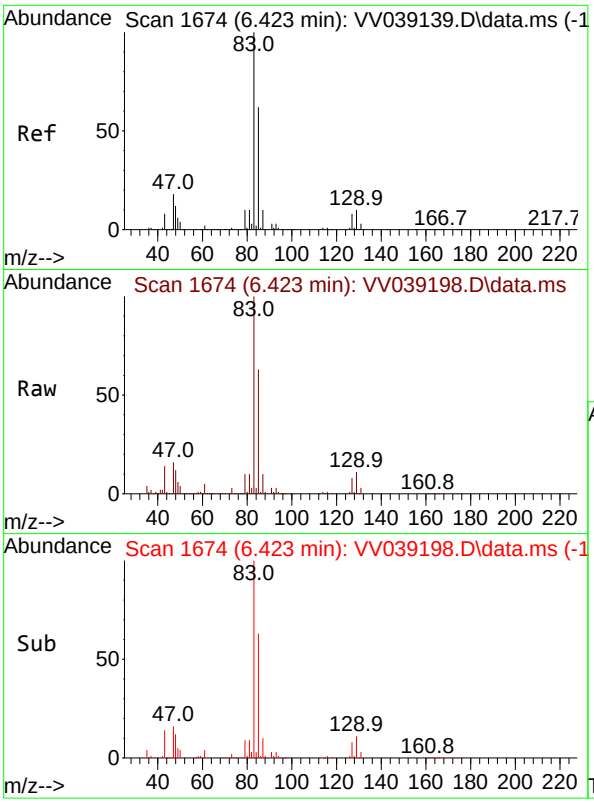


#46
Dibromomethane
Concen: 50.160 ug/l
RT: 6.224 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 93 Resp: 336464

Ion	Ratio	Lower	Upper
93	100		
95	81.2	65.5	98.3
174	91.5	69.0	103.4



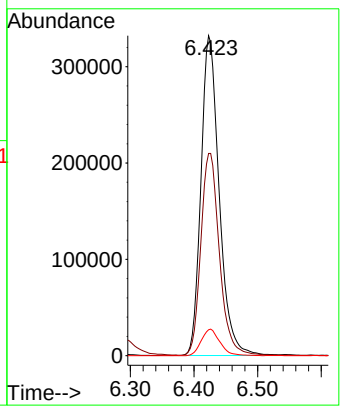


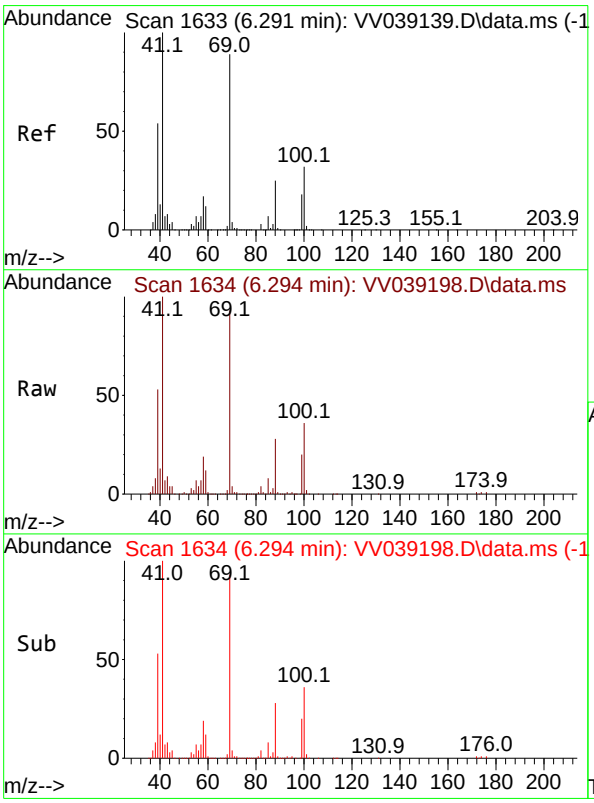
#47
Bromodichloromethane
Concen: 47.672 ug/l
RT: 6.423 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 661080

Ion	Ratio	Lower	Upper
83	100		
85	63.0	49.7	74.5
127	8.1	6.6	9.8

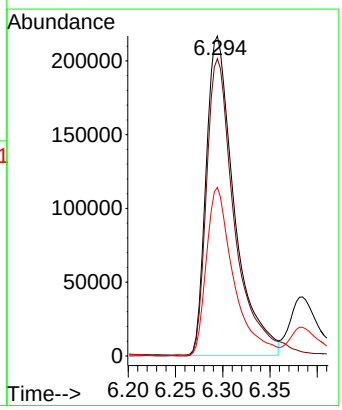


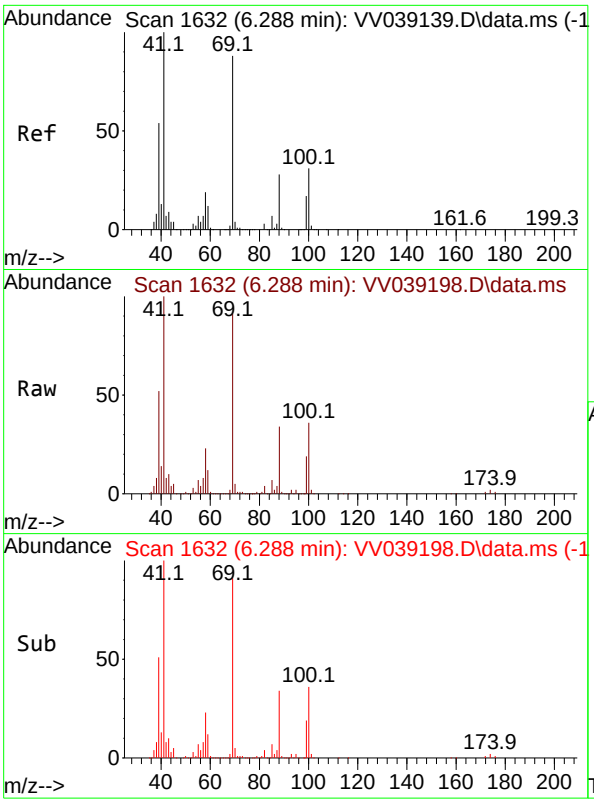


#48
Methyl methacrylate
Concen: 54.936 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 41 Resp: 446114

Ion	Ratio	Lower	Upper
41	100		
69	94.8	72.4	108.6
39	50.8	42.5	63.7



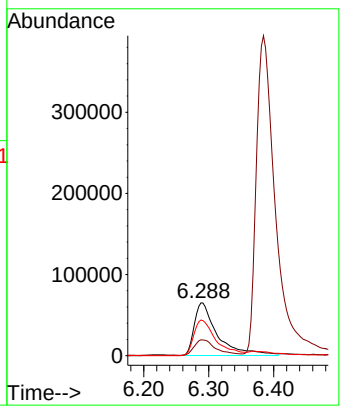


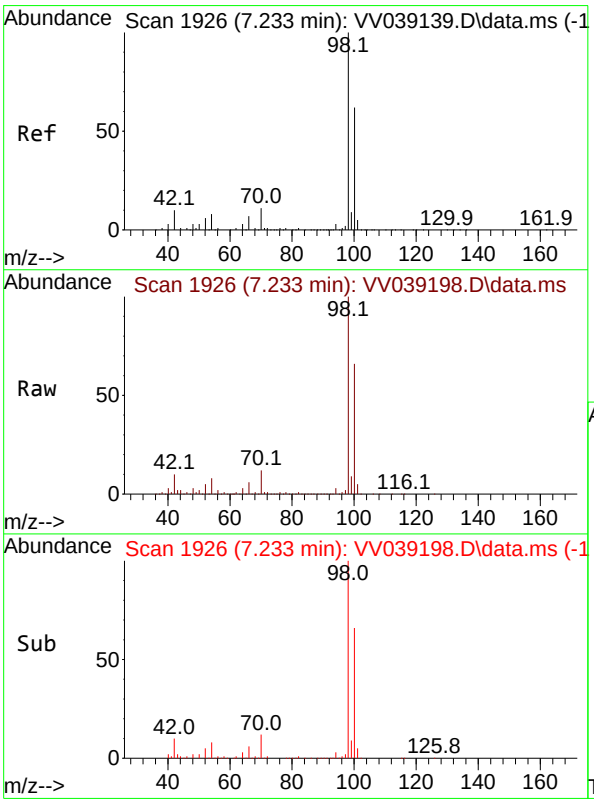
#49
1,4-Dioxane
Concen: 1229.438 ug/l
RT: 6.288 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 161118

Ion	Ratio	Lower	Upper
88	100		
43	27.4	25.1	37.7
58	65.2	53.6	80.4

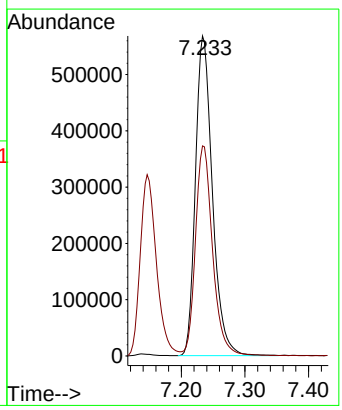


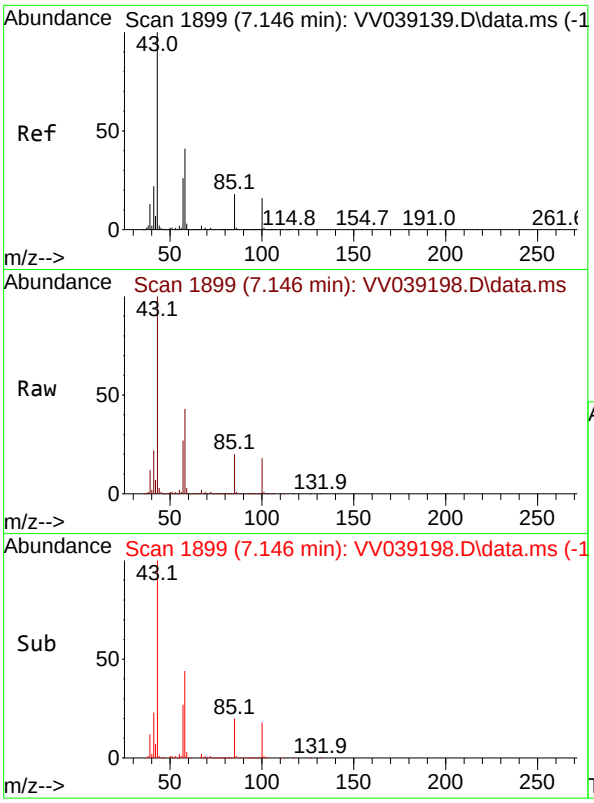


#50
Toluene-d8
Concen: 50.021 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 98 Resp: 1052144

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.2	78.2



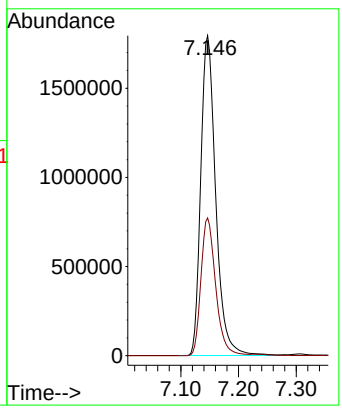


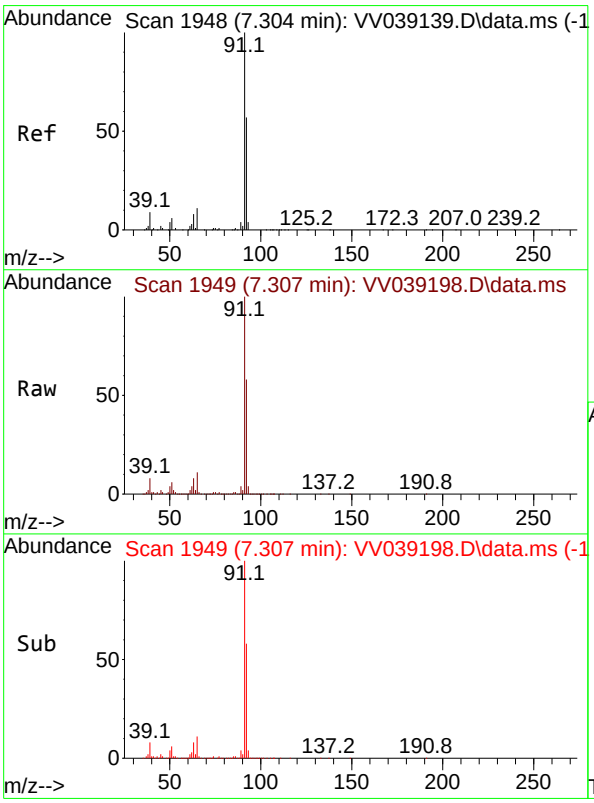
#51
4-Methyl-2-Pentanone
Concen: 273.983 ug/l
RT: 7.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 3229046

Ion	Ratio	Lower	Upper
43	100		
58	42.4	32.3	48.5

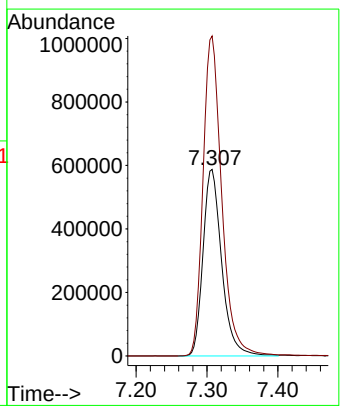


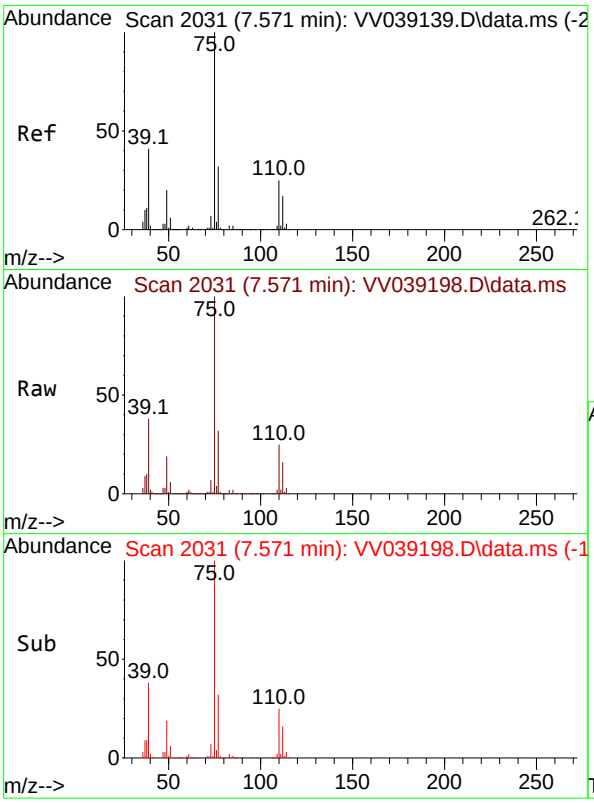


#52
Toluene
Concen: 52.600 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 92 Resp: 1075327

Ion	Ratio	Lower	Upper
92	100		
91	171.9	139.2	208.8



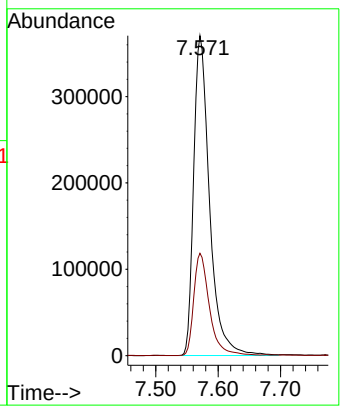


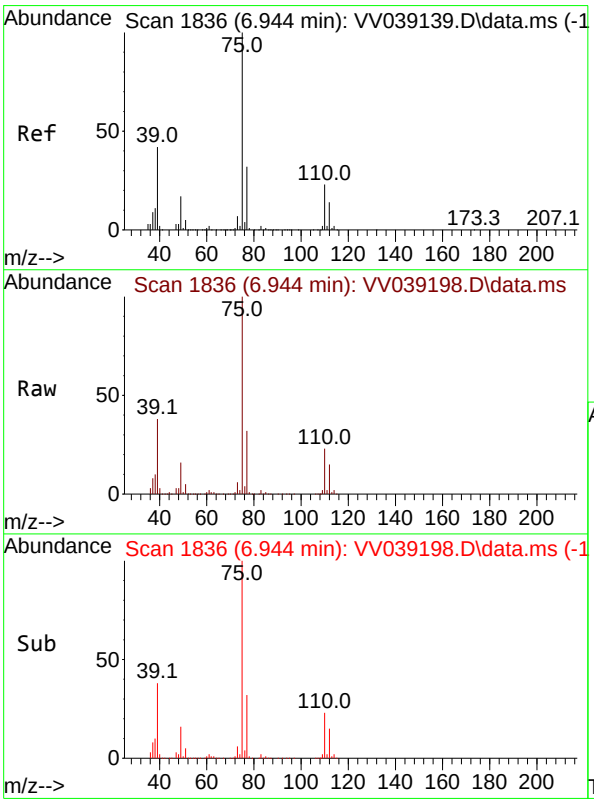
#53
t-1,3-Dichloropropene
Concen: 54.120 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 654044

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.9	38.9

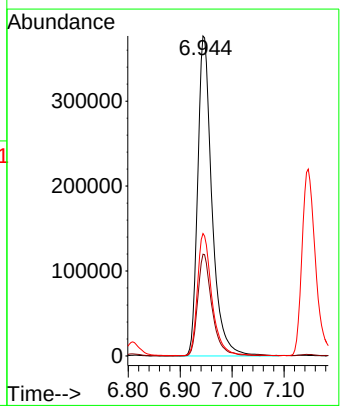


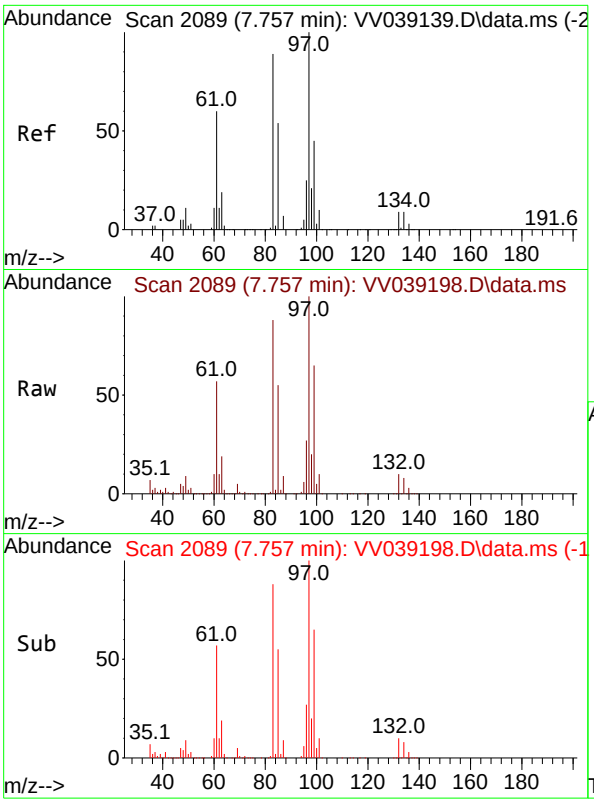


#54
cis-1,3-Dichloropropene
Concen: 53.795 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 717693

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.5	38.3
39	38.2	33.8	50.6



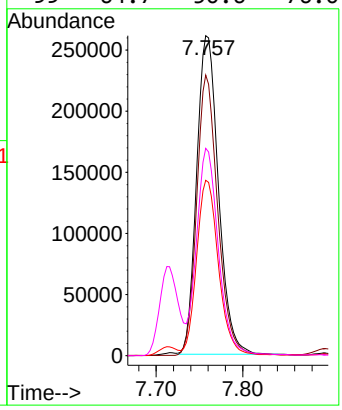


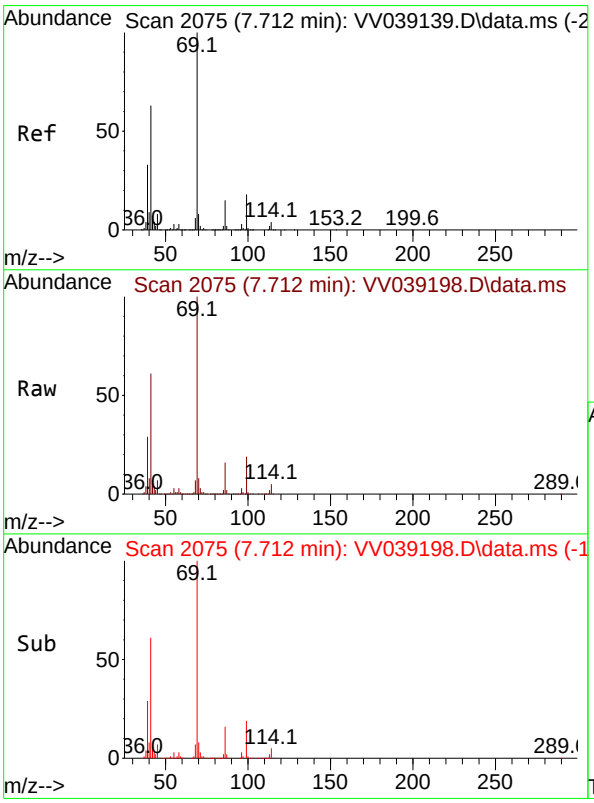
#55
1,1,2-Trichloroethane
Concen: 49.741 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 455956

Ion	Ratio	Lower	Upper
97	100		
83	87.8	71.1	106.7
85	54.8	44.6	67.0
99	64.7	50.6	76.0

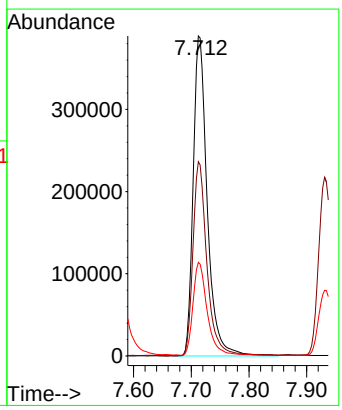


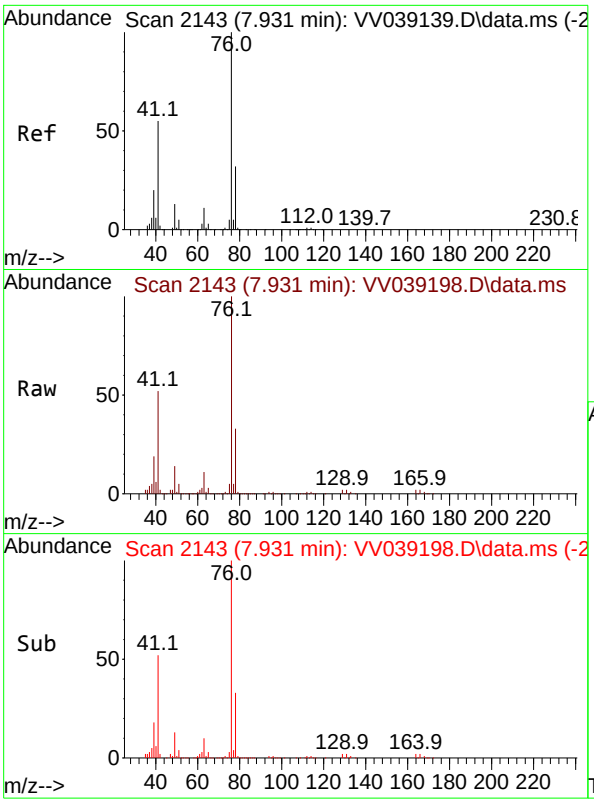


#56
Ethyl methacrylate
Concen: 60.567 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 69 Resp: 659328

Ion	Ratio	Lower	Upper
69	100		
41	60.5	50.7	76.1
39	29.3	26.0	39.0



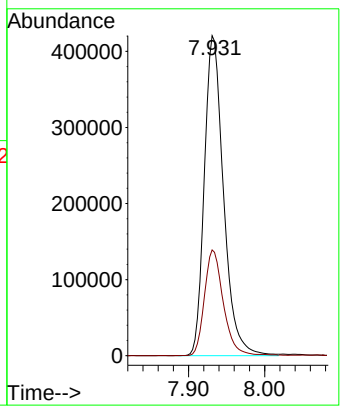


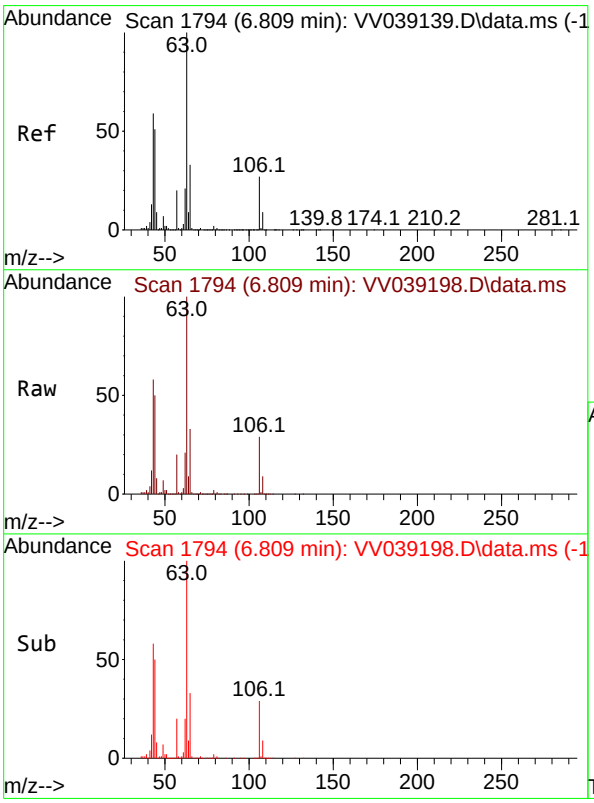
#57
1,3-Dichloropropane
Concen: 51.050 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 738511

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.1	39.1

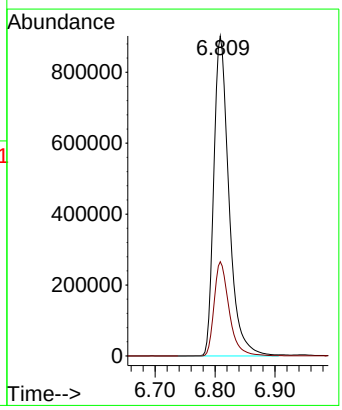


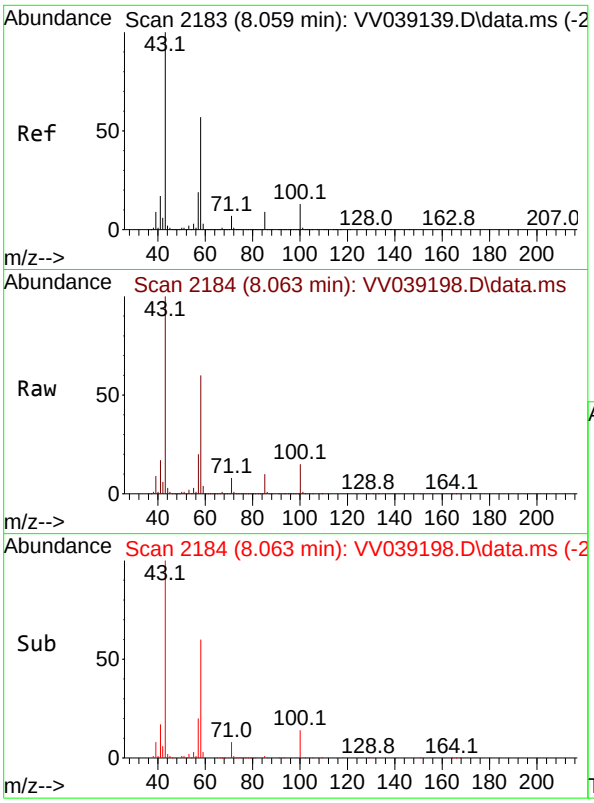


#58
2-Chloroethyl Vinyl ether
Concen: 257.371 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 63 Resp: 1583796

Ion	Ratio	Lower	Upper
63	100		
106	29.1	22.1	33.1



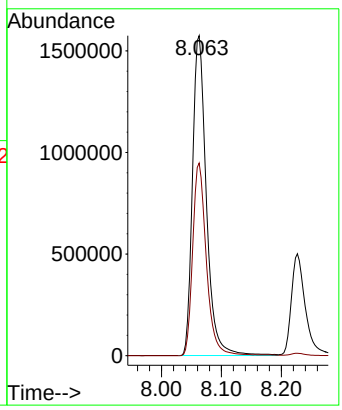


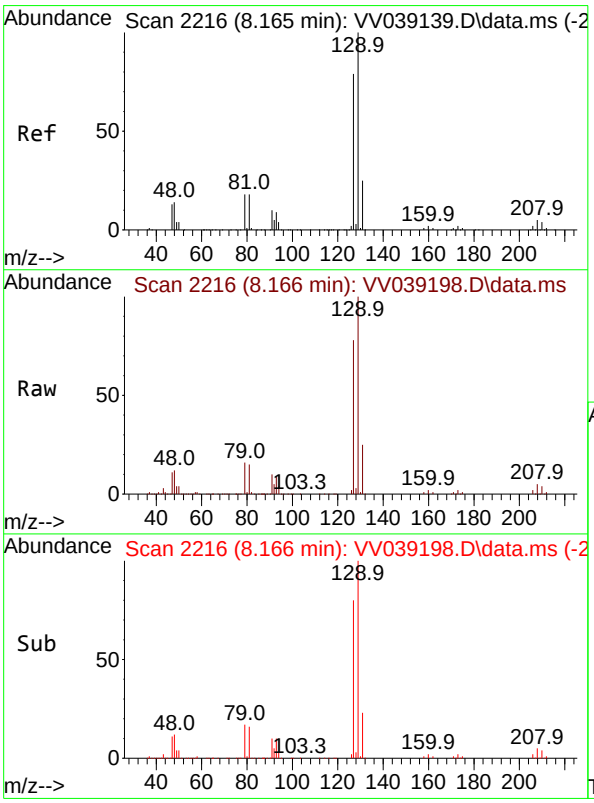
#59
2-Hexanone
Concen: 266.941 ug/l
RT: 8.063 min Scan# 21
Delta R.T. 0.004 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2540984

Ion	Ratio	Lower	Upper
43	100		
58	59.4	28.3	85.0

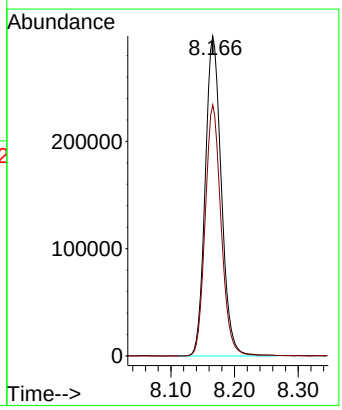


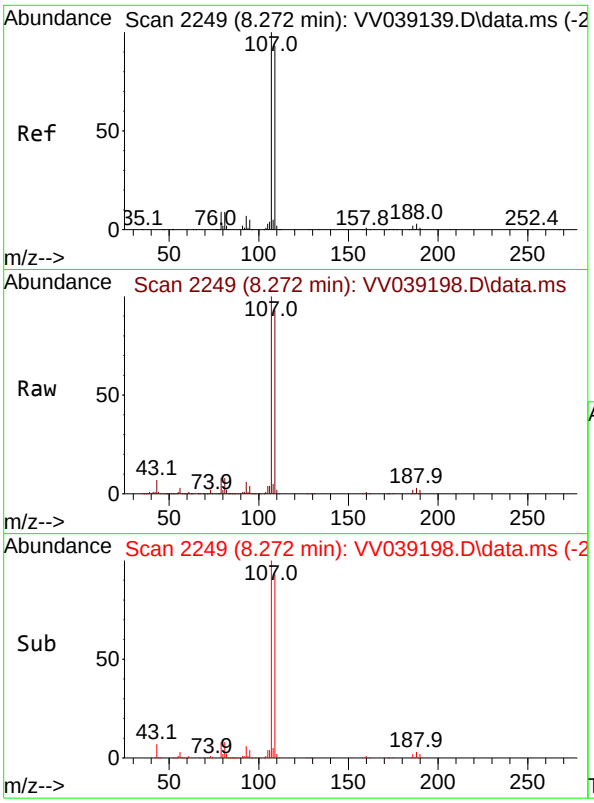


#60
Dibromochloromethane
Concen: 50.091 ug/l
RT: 8.166 min Scan# 2216
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:129 Resp: 523192

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.9



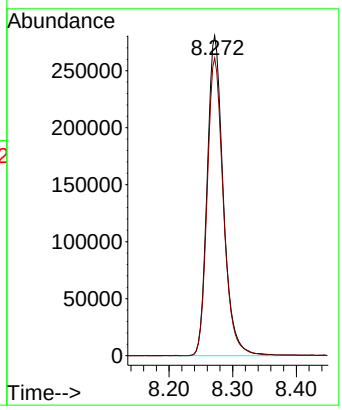


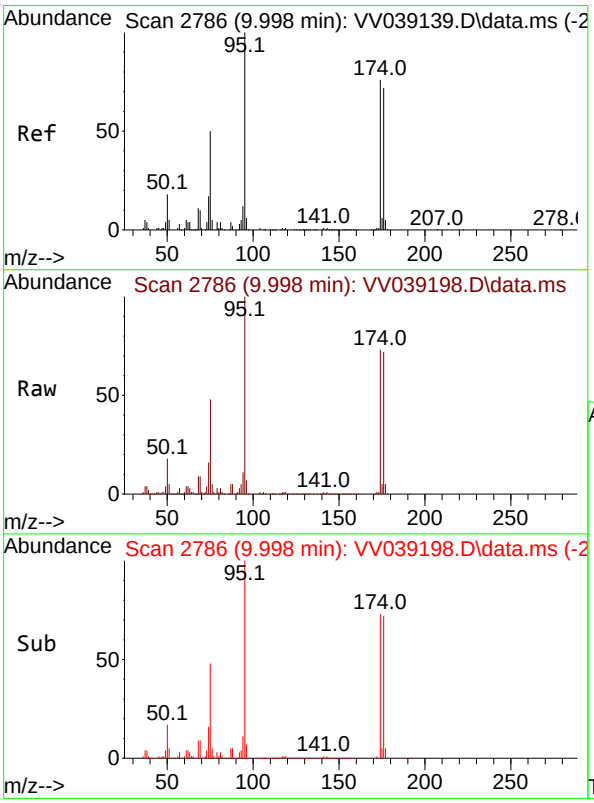
#61
1,2-Dibromoethane
Concen: 52.515 ug/l
RT: 8.272 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 492305

Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.6	112.0

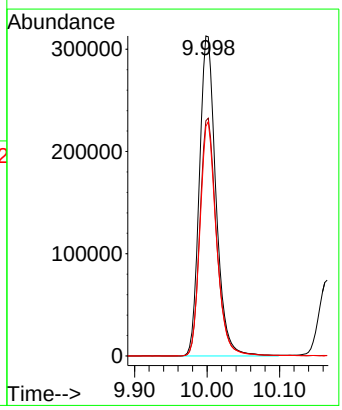


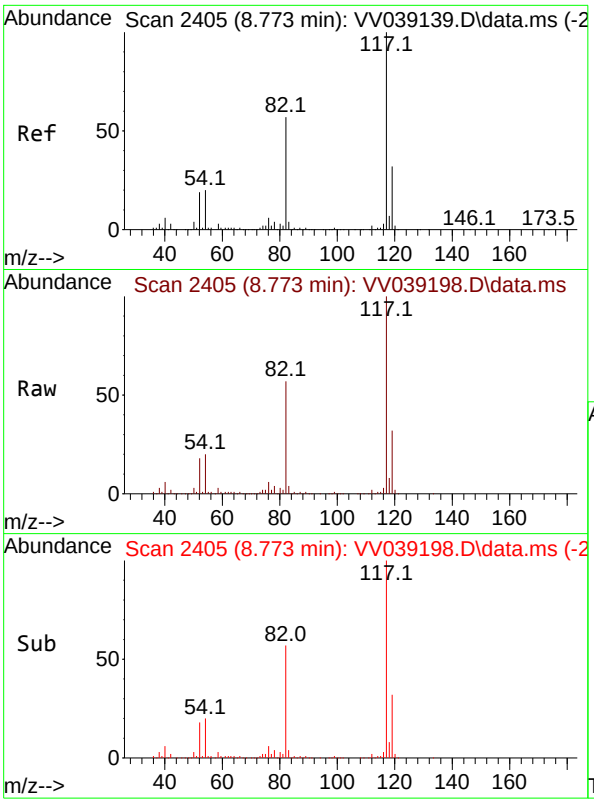


#62
4-Bromofluorobenzene
Concen: 57.366 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 95 Resp: 496739

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	150.4
176	72.5	0.0	144.2



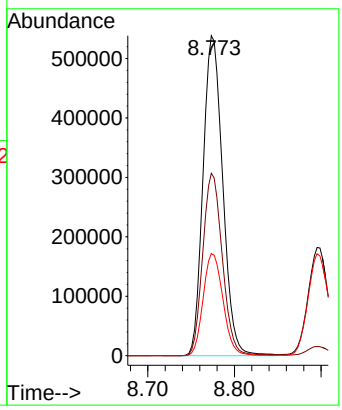


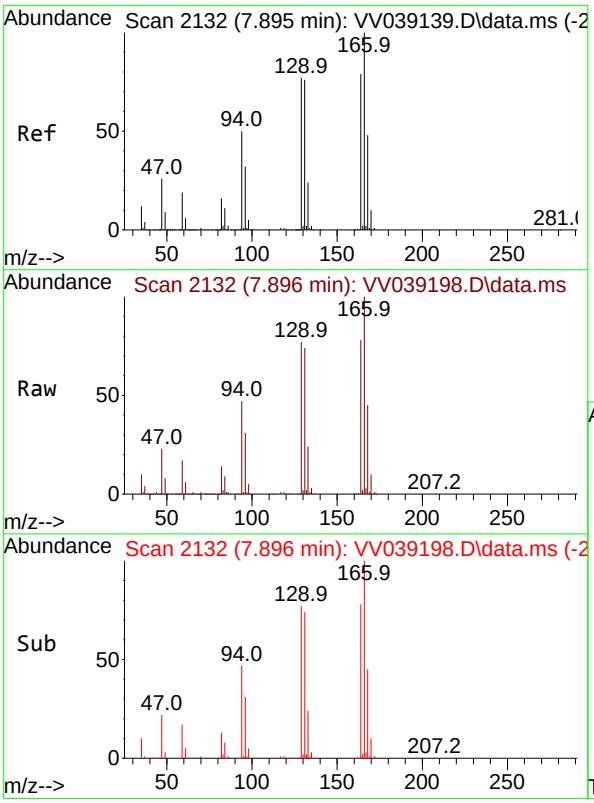
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 851107

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.4	68.2
119	31.9	25.6	38.4

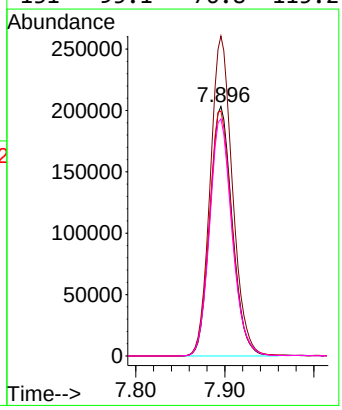


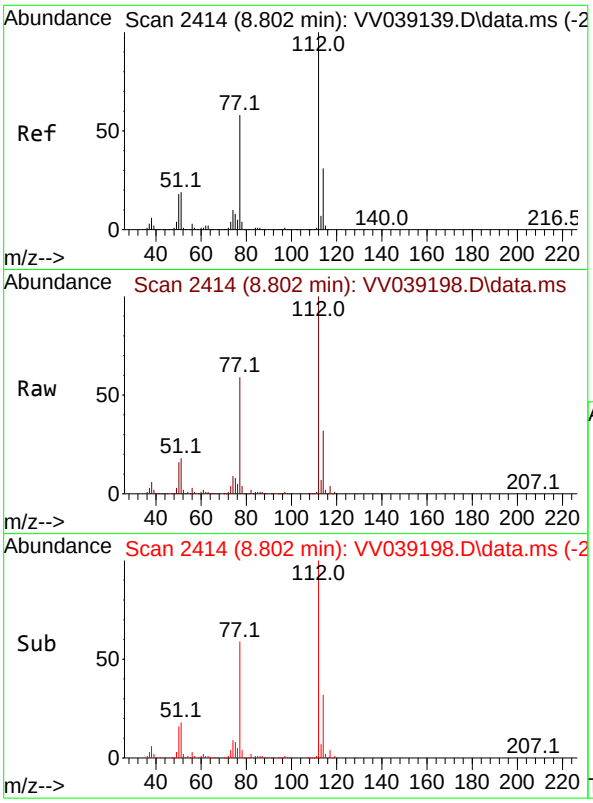


#64
Tetrachloroethene
Concen: 49.940 ug/l
RT: 7.896 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:164 Resp: 356008

Ion	Ratio	Lower	Upper
164	100		
166	128.3	101.6	152.4
129	98.2	78.5	117.7
131	95.1	76.8	115.2



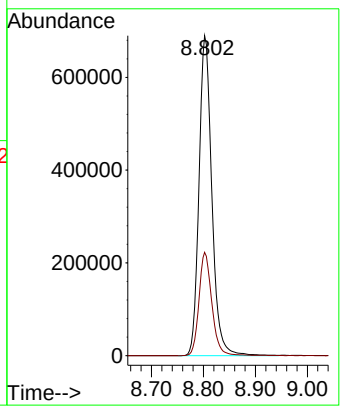


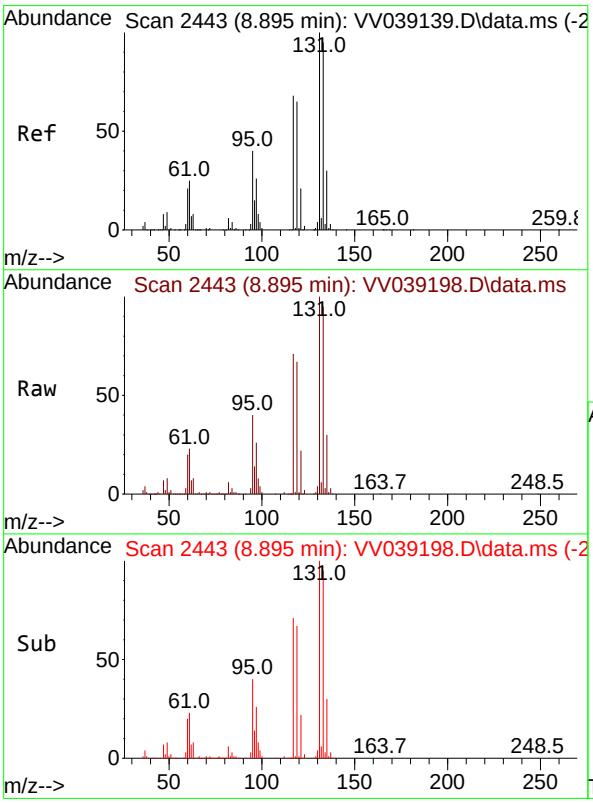
#65
Chlorobenzene
Concen: 49.953 ug/l
RT: 8.802 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 1184240

Ion	Ratio	Lower	Upper
112	100		
114	32.3	24.6	37.0

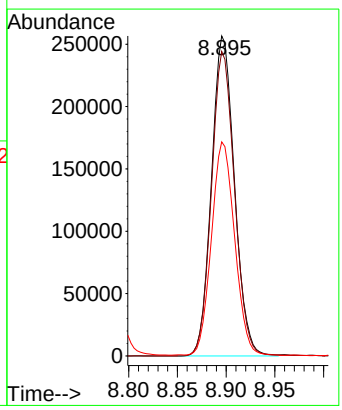


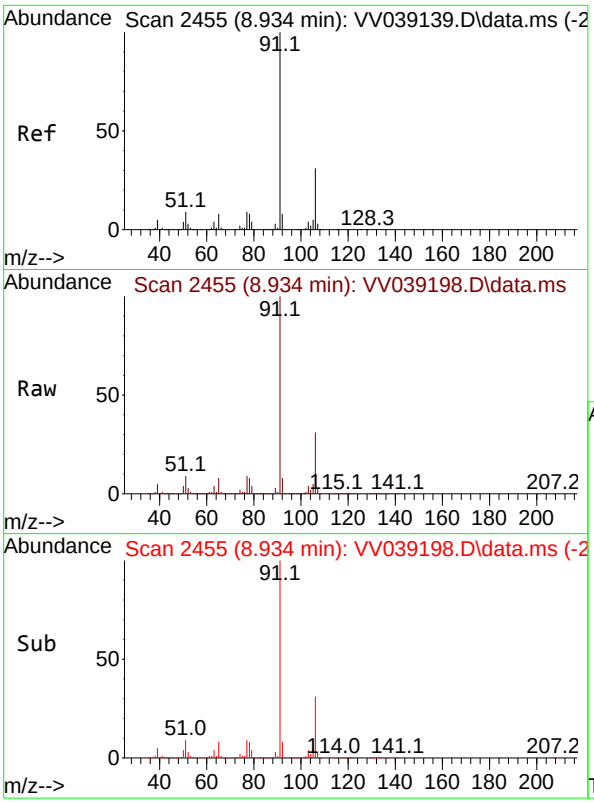


#66
1,1,1,2-Tetrachloroethane
Concen: 49.105 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:131 Resp: 420629

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	141.8
119	67.6	33.3	99.8



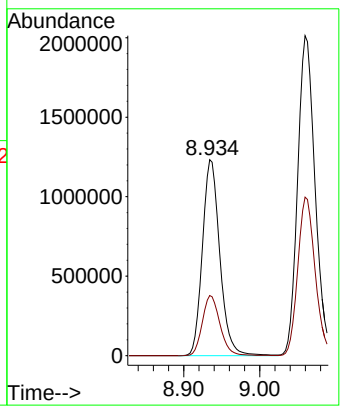


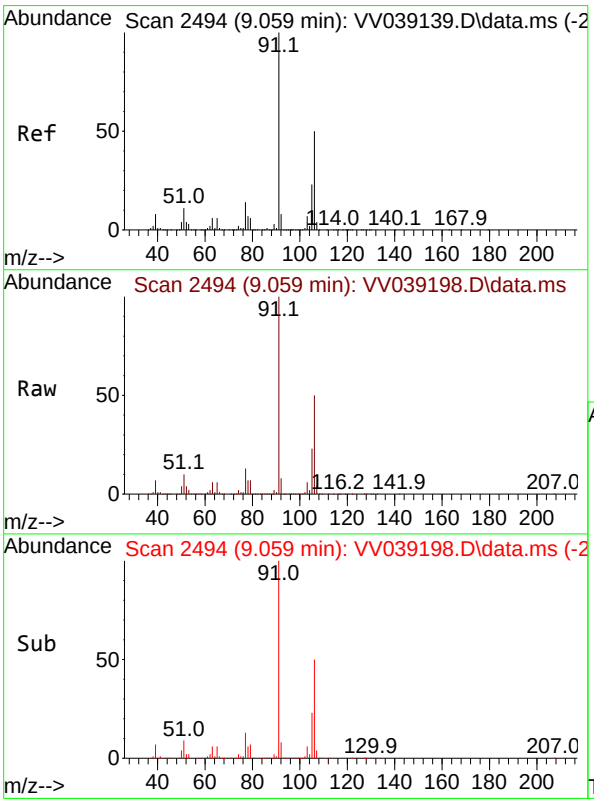
#67
Ethyl Benzene
Concen: 54.765 ug/l
RT: 8.934 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1965281

Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.6	37.0

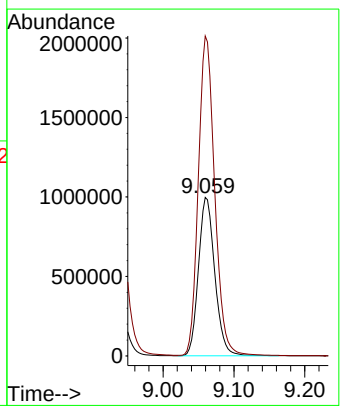


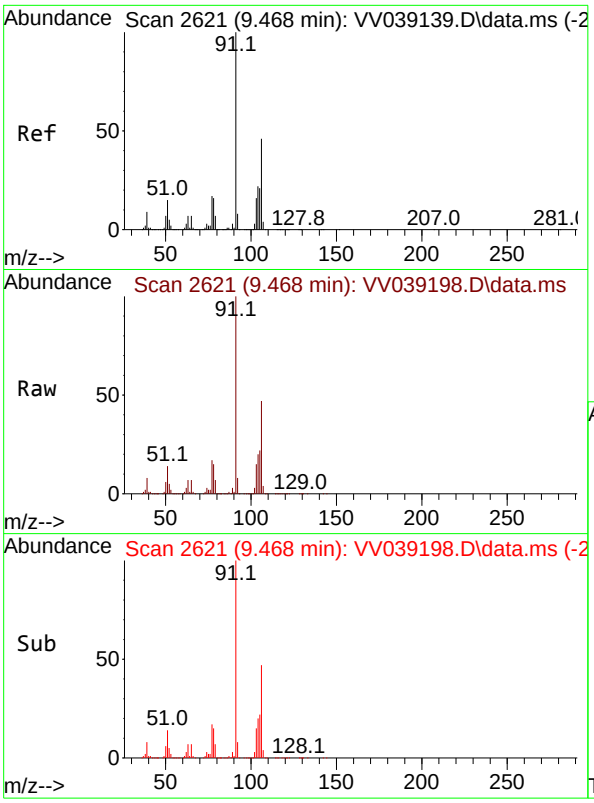


#68
m/p-Xylenes
Concen: 115.152 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:106 Resp: 1594917

Ion	Ratio	Lower	Upper
106	100		
91	202.2	162.5	243.7



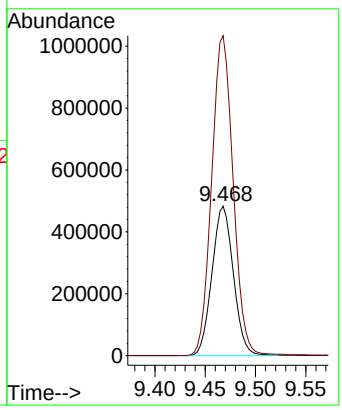


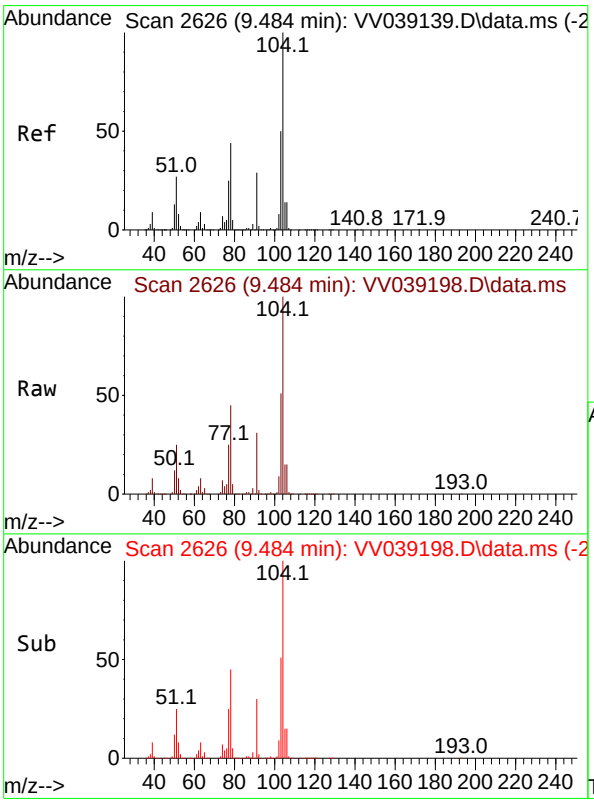
#69
o-Xylene
Concen: 58.277 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 714698

Ion	Ratio	Lower	Upper
106	100		
91	215.7	109.1	327.3

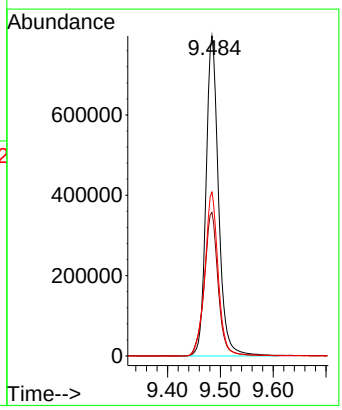


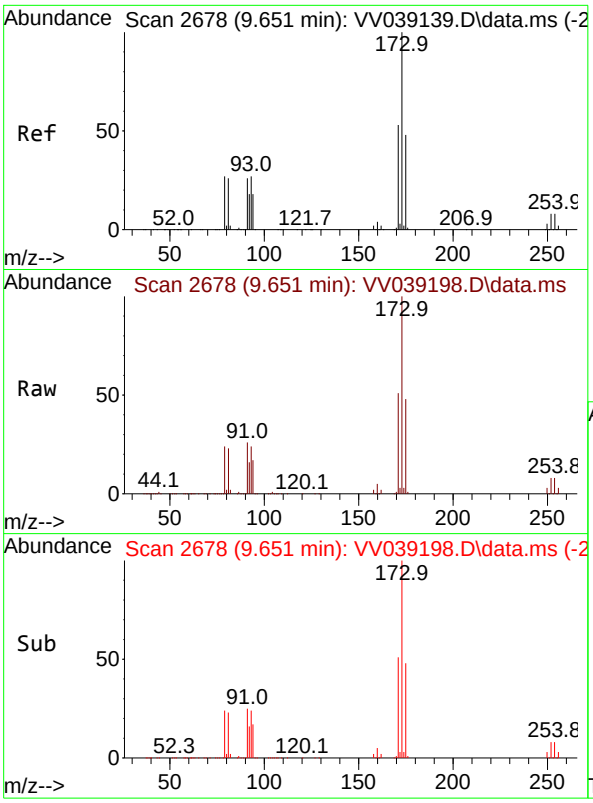


#70
Styrene
Concen: 50.578 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:104 Resp: 1314322

Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.8	59.6
103	54.6	43.4	65.2



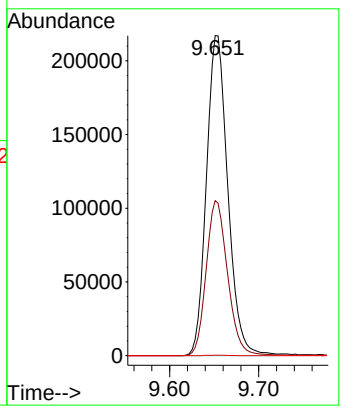


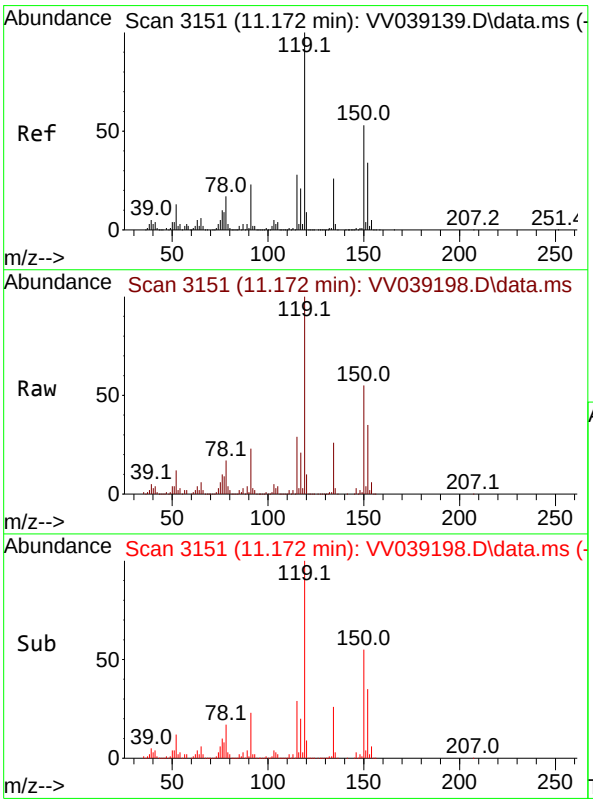
#71
Bromoform
Concen: 54.097 ug/l
RT: 9.651 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 361962

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.9	71.7
254	0.2	0.1	0.1#

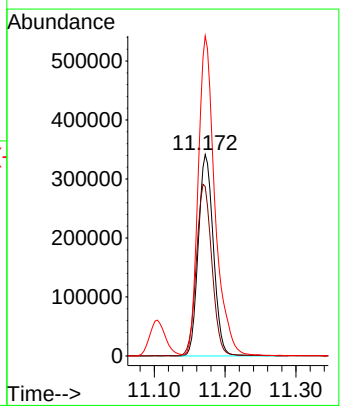


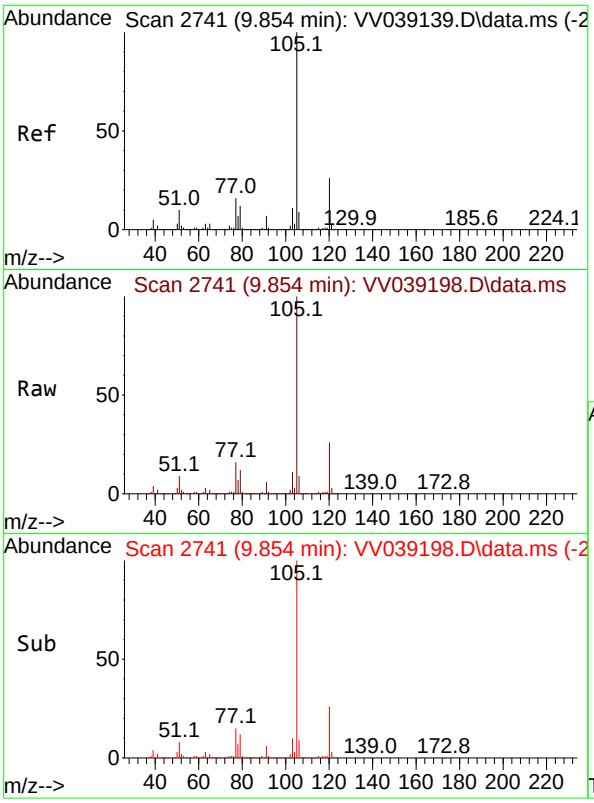


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:152 Resp: 503461

Ion	Ratio	Lower	Upper
152	100		
115	87.3	44.8	134.4
150	176.2	0.0	353.8



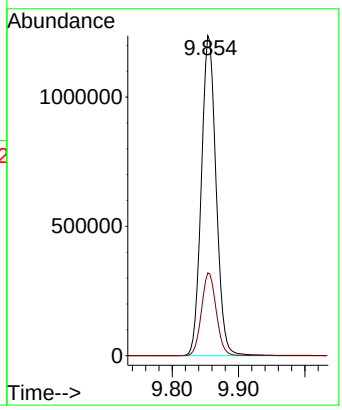


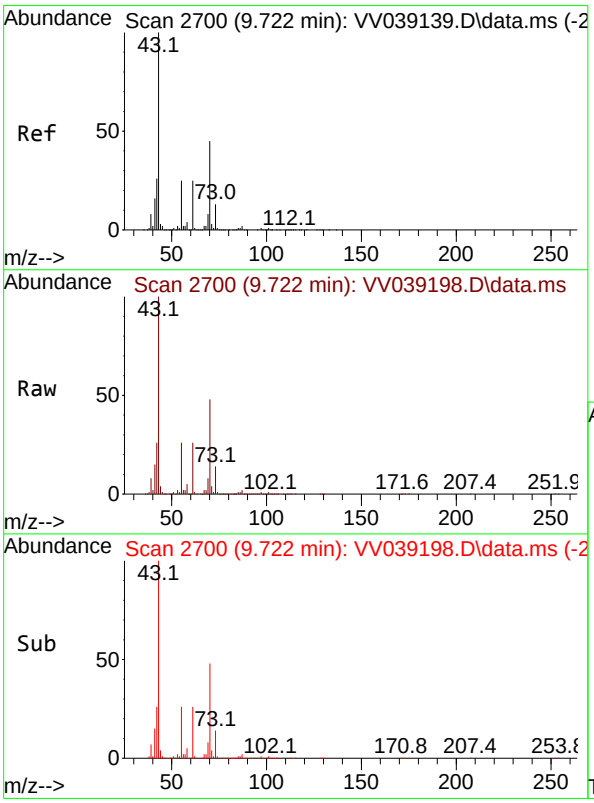
#73
Isopropylbenzene
Concen: 52.314 ug/l
RT: 9.854 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1910303

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.1

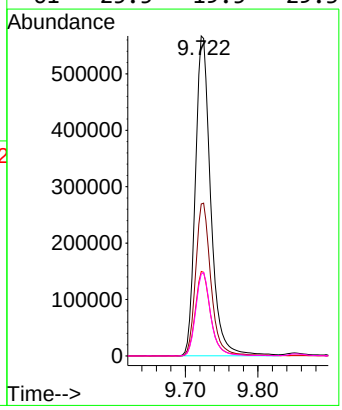


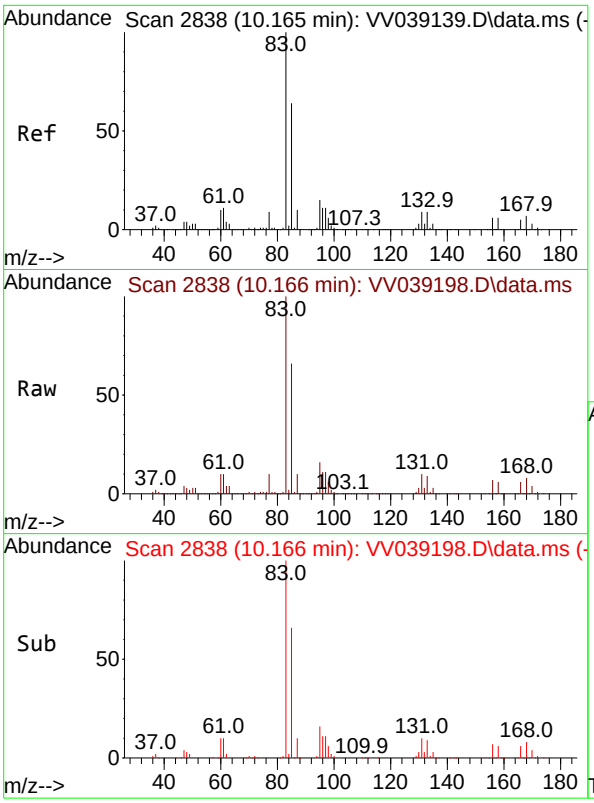


#74
N-amyl acetate
Concen: 57.243 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 43 Resp: 833773

Ion	Ratio	Lower	Upper
43	100		
70	47.6	35.4	53.0
55	26.4	20.6	30.8
61	25.5	19.5	29.3



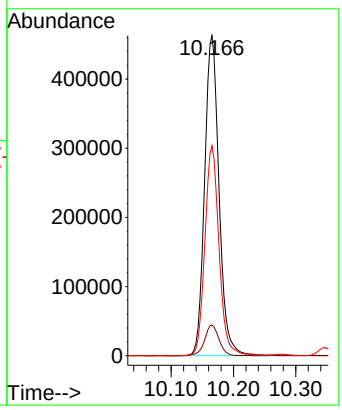


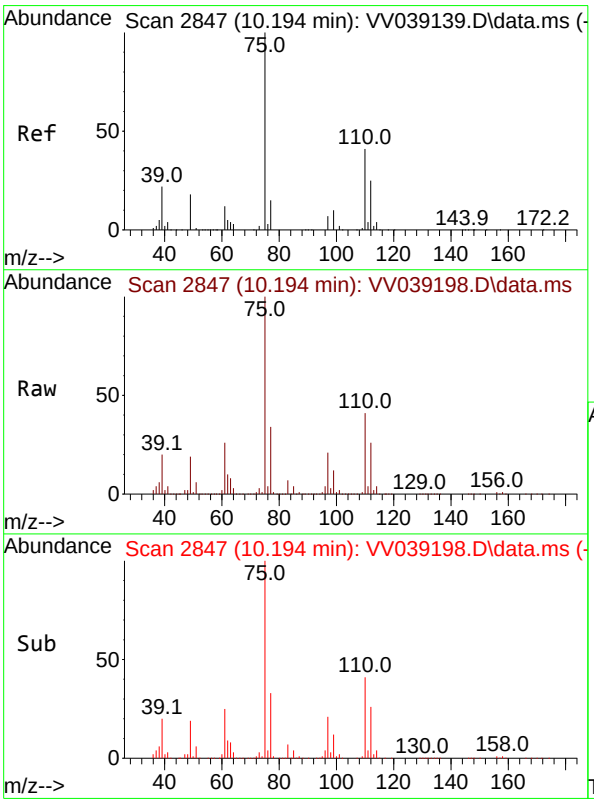
#75
1,1,2,2-Tetrachloroethane
Concen: 46.497 ug/l
RT: 10.166 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 743933

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	64.5	31.9	95.9

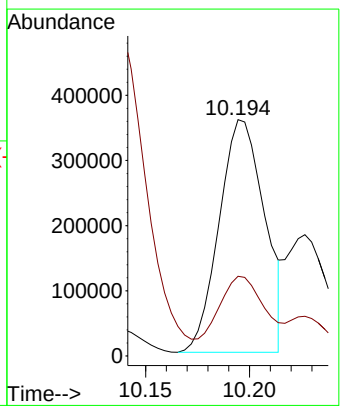


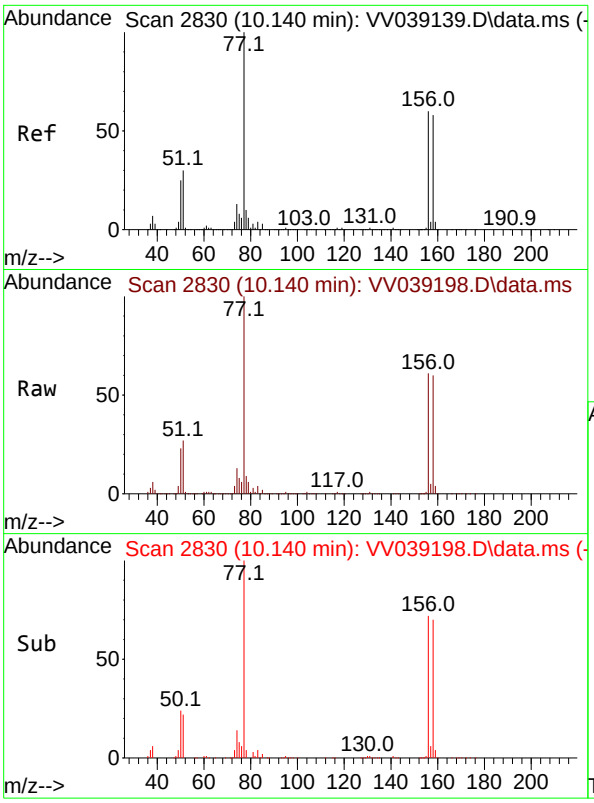


#76
1,2,3-Trichloropropane
Concen: 47.449 ug/l
RT: 10.194 min Scan# 2847
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 543913

Ion	Ratio	Lower	Upper
75	100		
77	25.0	11.3	33.8



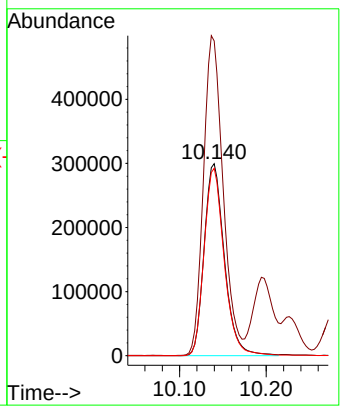


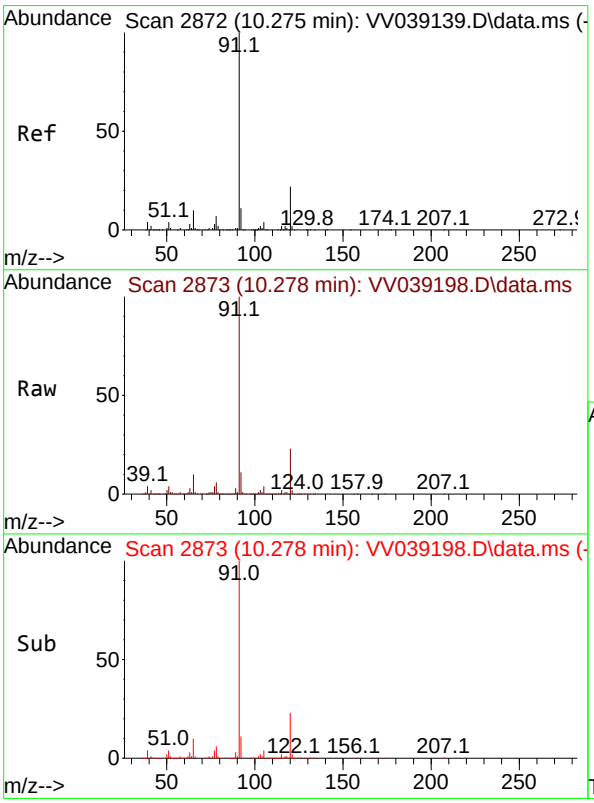
#77
Bromobenzene
Concen: 51.325 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 486251

Ion	Ratio	Lower	Upper
156	100		
77	161.4	83.4	250.1
158	97.2	48.8	146.4

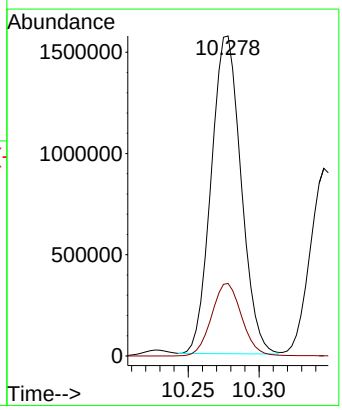


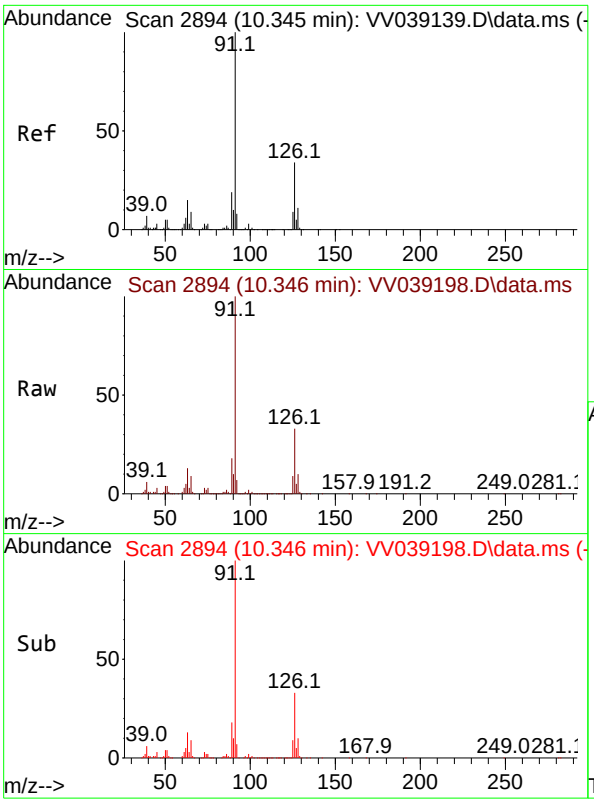


#78
n-propylbenzene
Concen: 51.822 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 91 Resp: 2304429

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.3



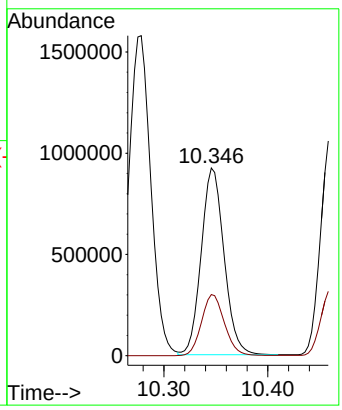


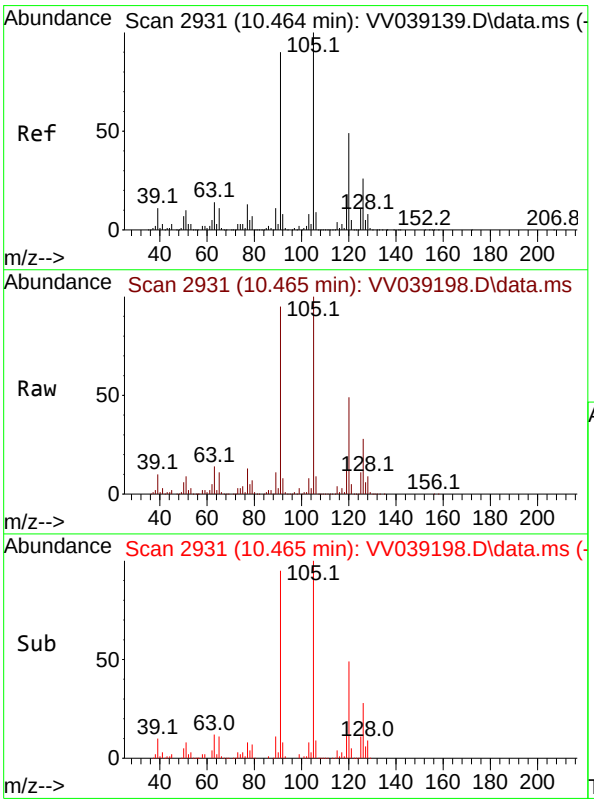
#79
2-Chlorotoluene
Concen: 52.993 ug/l
RT: 10.346 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1410067

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.7	50.0

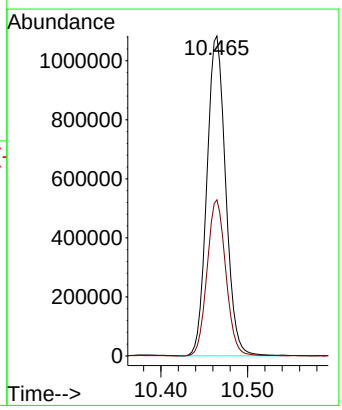


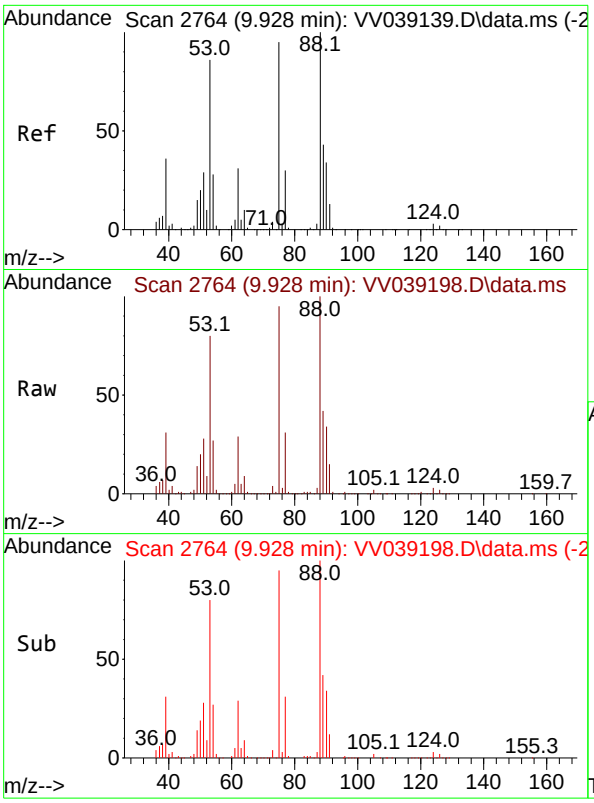


#80
1,3,5-Trimethylbenzene
Concen: 53.760 ug/l
RT: 10.465 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:105 Resp: 1631715

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.3	72.8



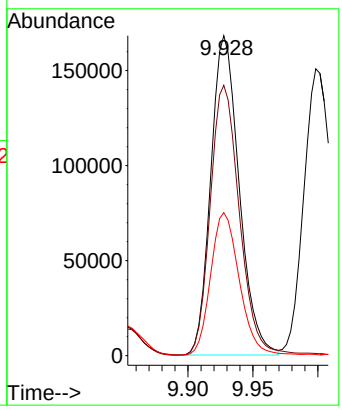


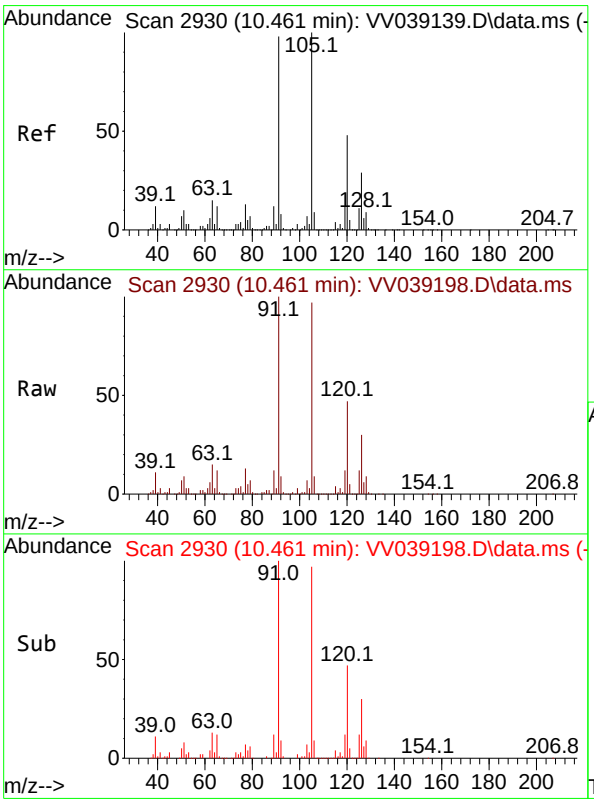
#81
trans-1,4-Dichloro-2-butene
Concen: 53.459 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 255261

Ion	Ratio	Lower	Upper
75	100		
53	87.0	72.5	108.7
89	44.9	37.2	55.8

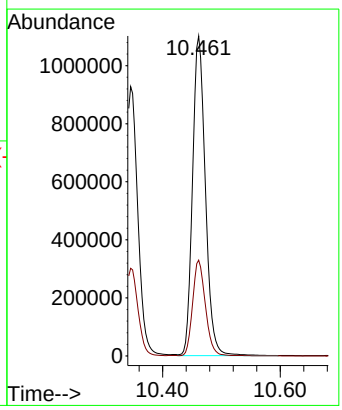


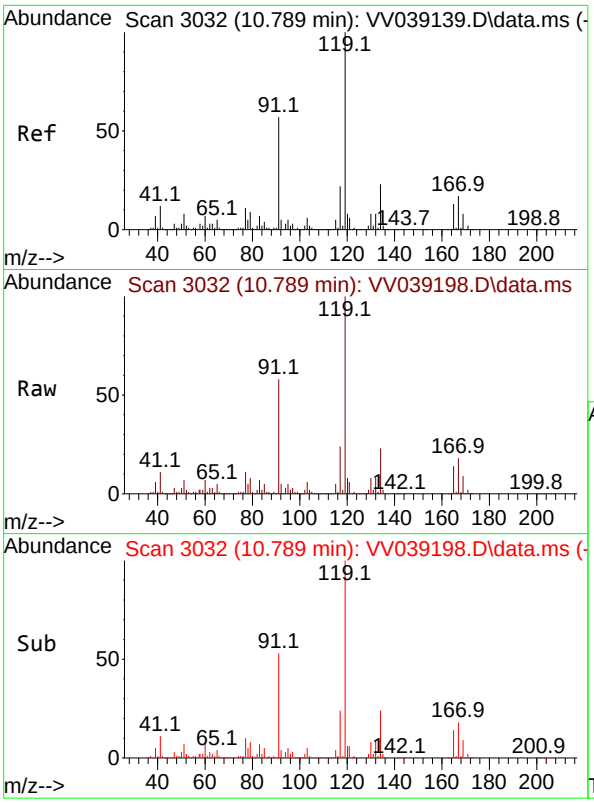


#82
4-Chlorotoluene
Concen: 53.976 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 91 Resp: 1665368

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.5	43.6



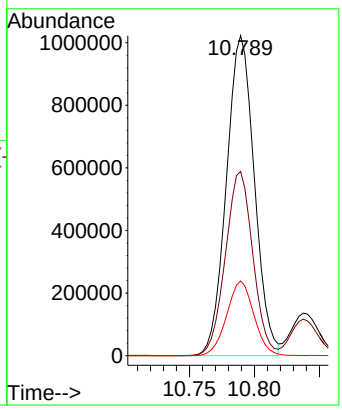


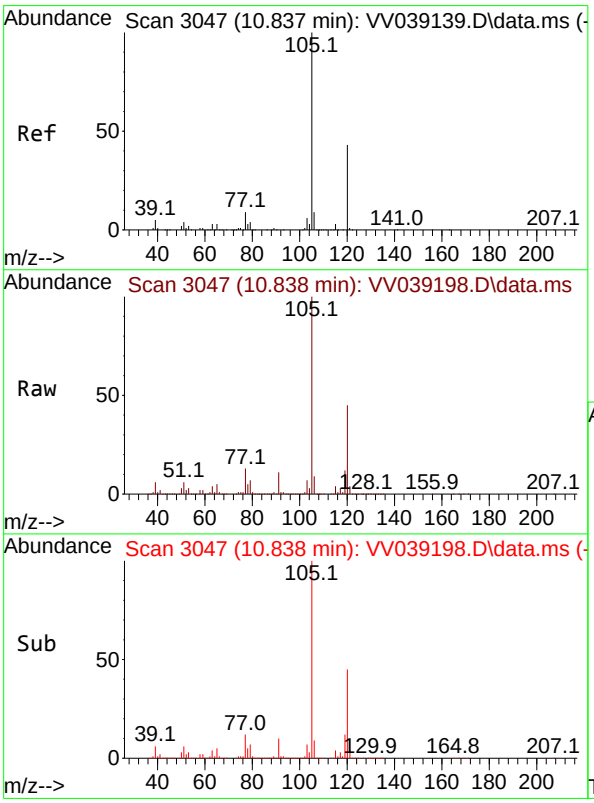
#83
tert-Butylbenzene
Concen: 50.617 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 1531956

Ion	Ratio	Lower	Upper
119	100		
91	56.6	28.5	85.6
134	22.8	11.5	34.4

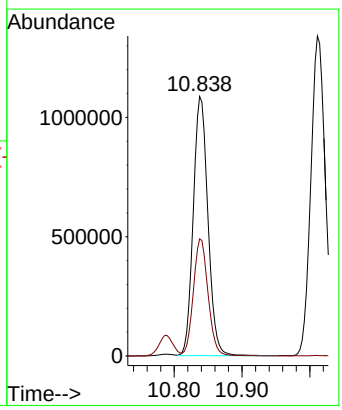


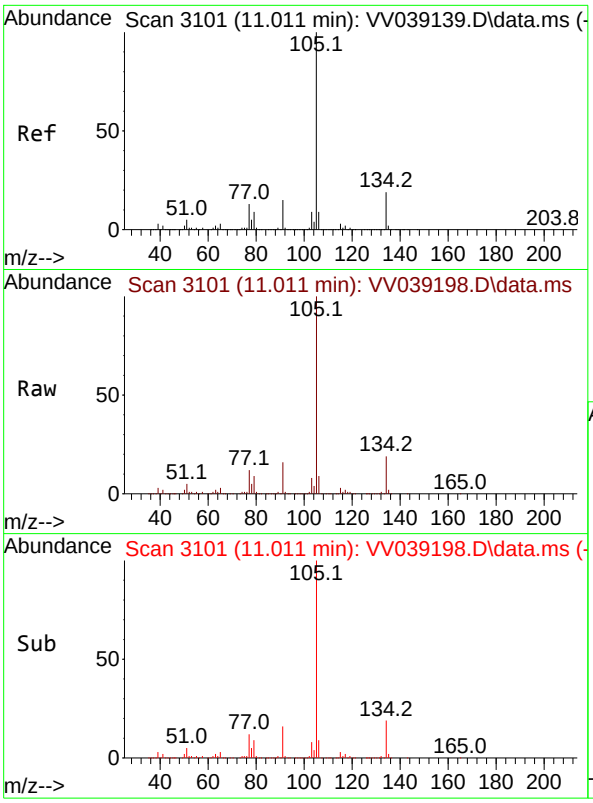


#84
1,2,4-Trimethylbenzene
Concen: 55.520 ug/l
RT: 10.838 min Scan# 3047
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:105 Resp: 1635985

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.4	67.2



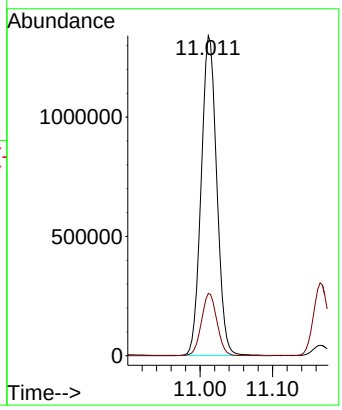


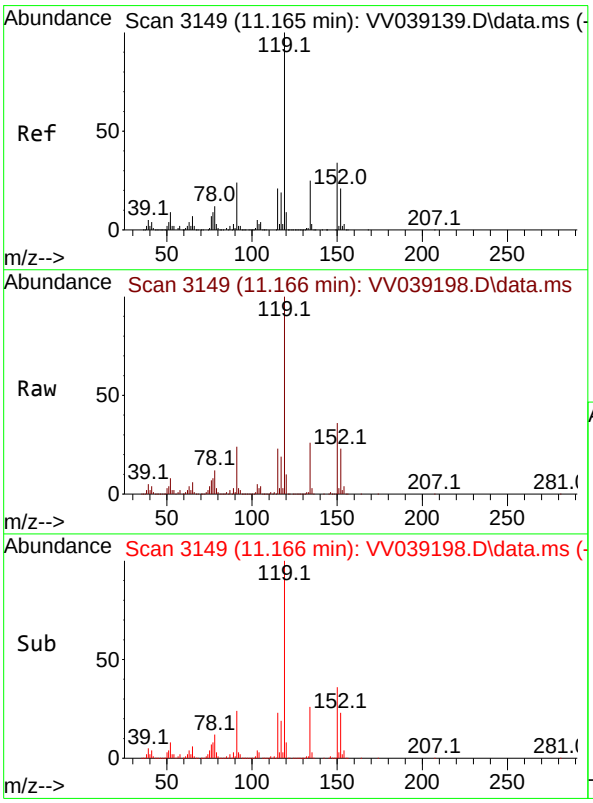
#85
sec-Butylbenzene
Concen: 49.696 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1994966

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.6	28.8

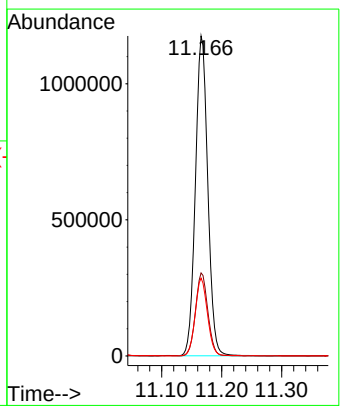


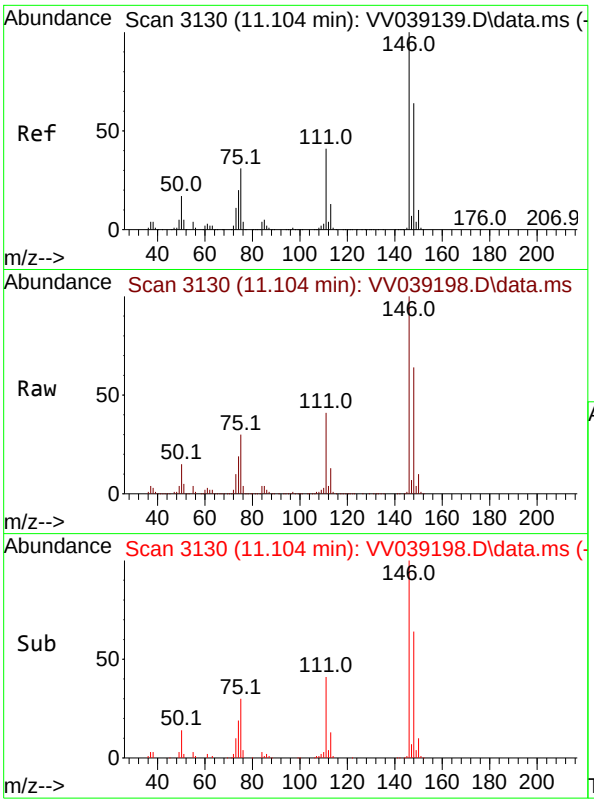


#86
p-Isopropyltoluene
Concen: 50.491 ug/l
RT: 11.166 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:119 Resp: 1686983

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.7	38.0
91	23.9	12.0	36.1



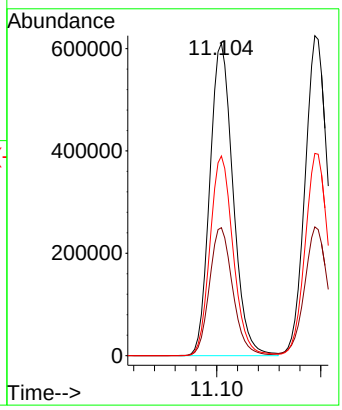


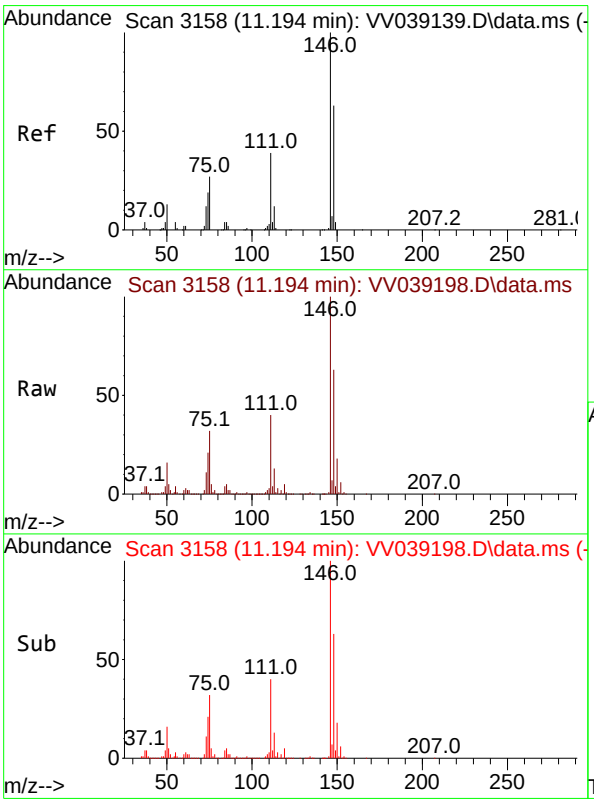
#87
1,3-Dichlorobenzene
Concen: 49.438 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 947921

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.9	62.8
148	63.7	31.8	95.3

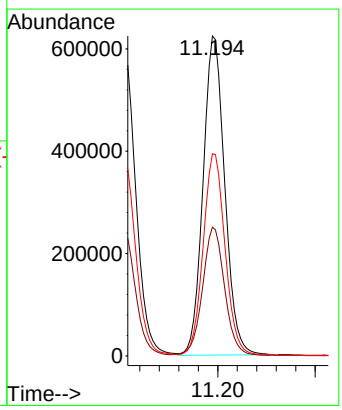


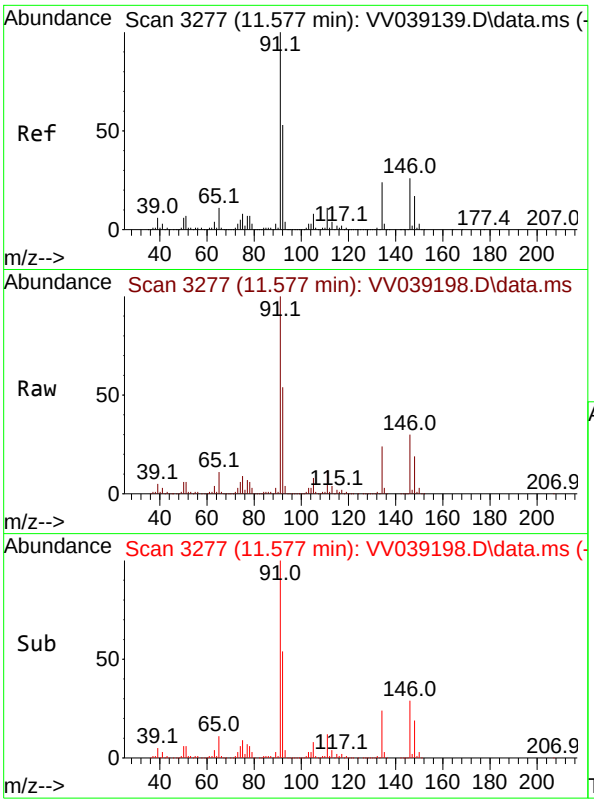


#88
1,4-Dichlorobenzene
Concen: 45.789 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:146 Resp: 963204

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.3	60.8
148	64.7	31.4	94.2



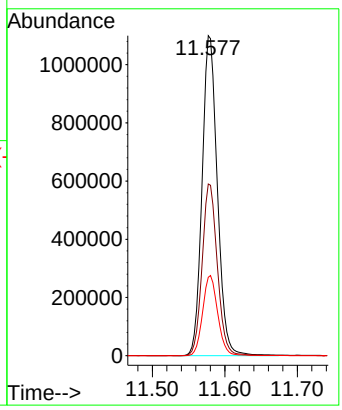


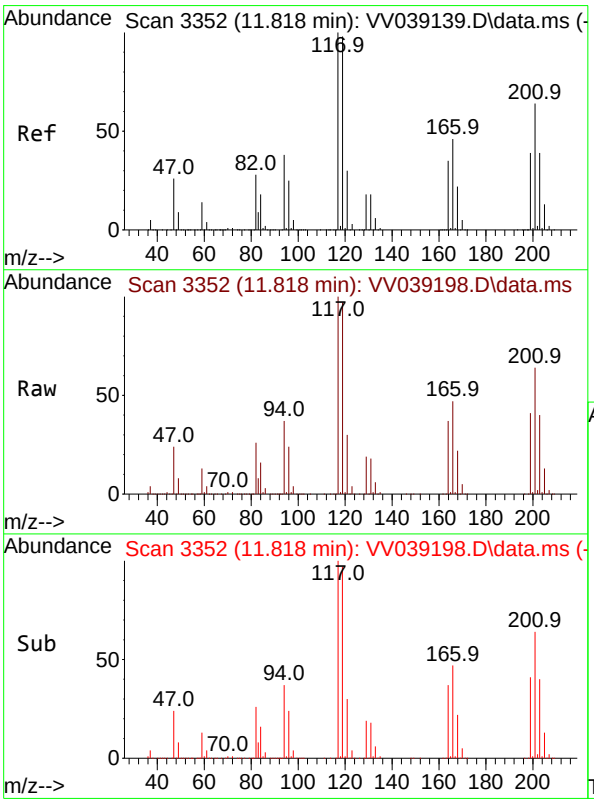
#89
n-Butylbenzene
Concen: 50.362 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1607017

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.6	79.8
134	24.8	12.1	36.3

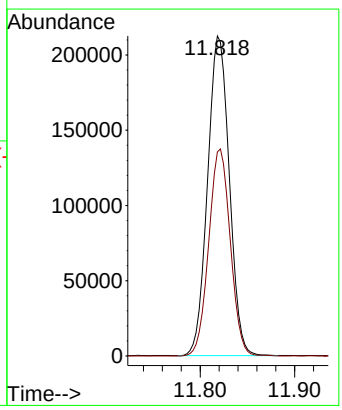


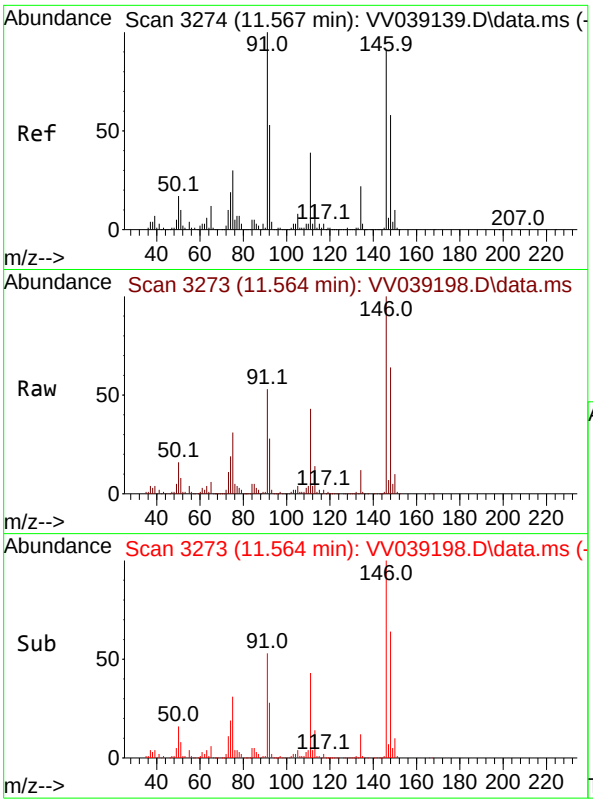


#90
Hexachloroethane
Concen: 41.222 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:117 Resp: 339159

Ion	Ratio	Lower	Upper
117	100		
201	64.3	32.3	96.8



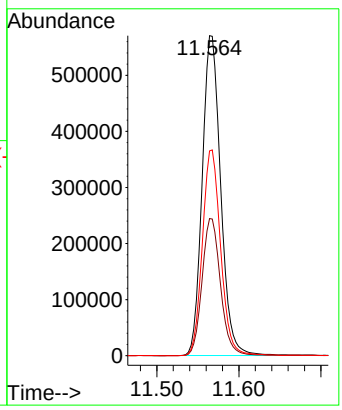


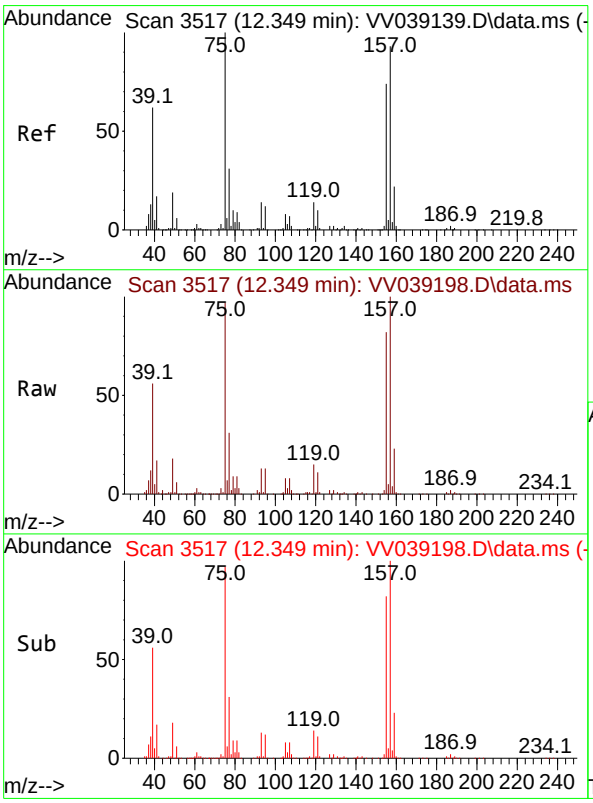
#91
1,2-Dichlorobenzene
Concen: 50.024 ug/l
RT: 11.564 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 896118

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.5	64.5
148	63.6	31.9	95.7

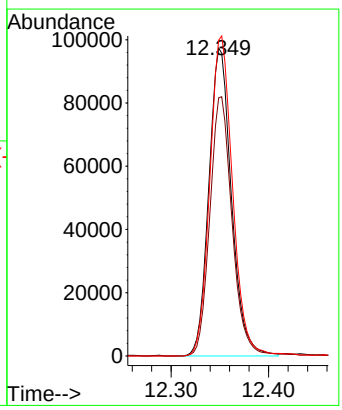


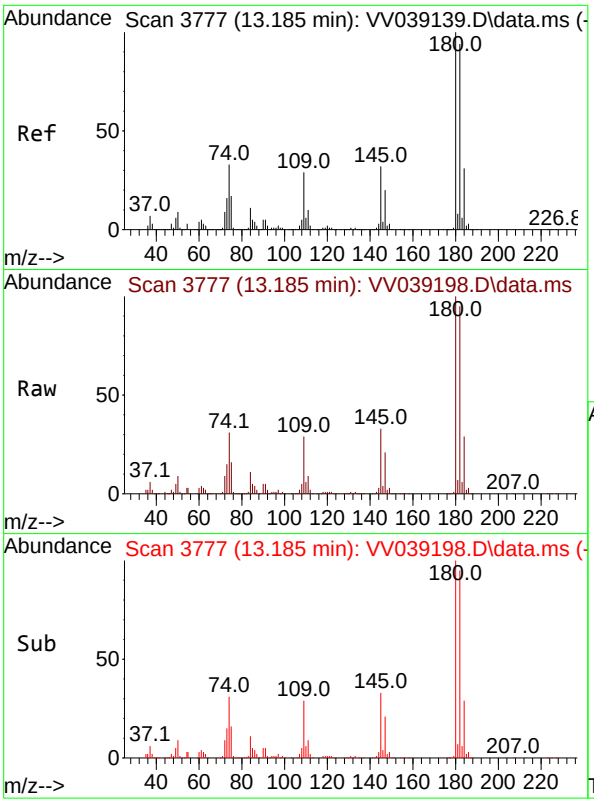


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.339 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 157070

Ion	Ratio	Lower	Upper
75	100		
155	83.1	38.6	115.8
157	105.1	49.5	148.3



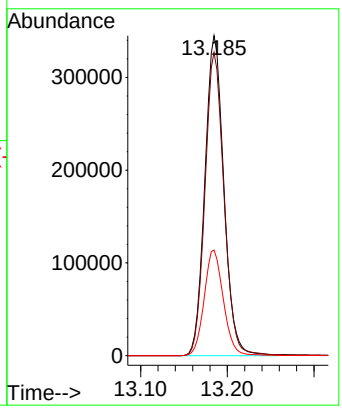


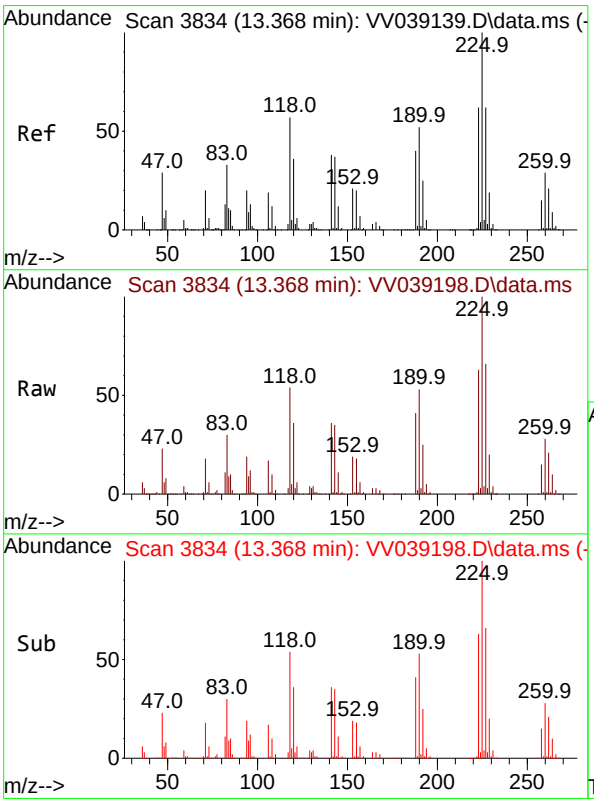
#93
1,2,4-Trichlorobenzene
Concen: 51.259 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 526372

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.1	141.4
145	33.4	16.3	48.8

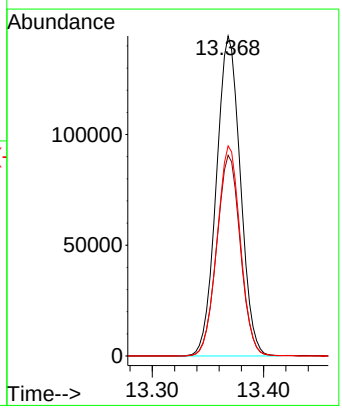


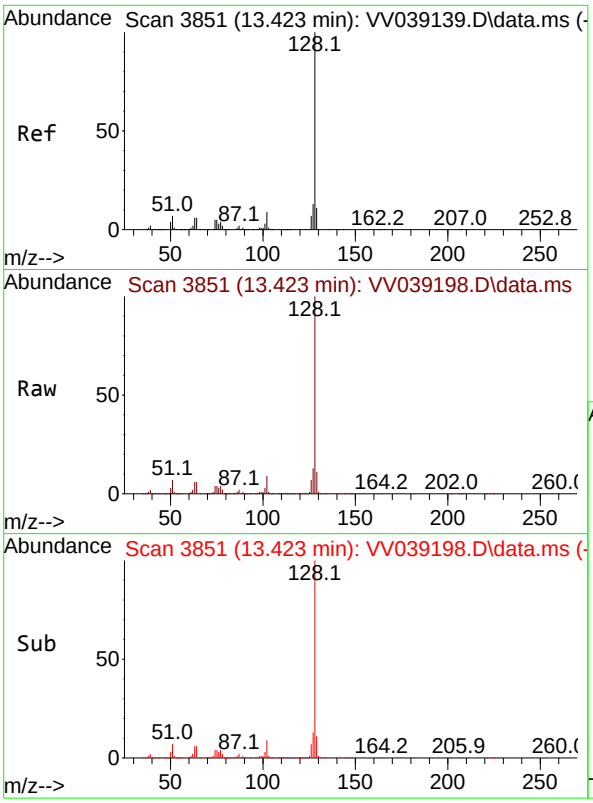


#94
Hexachlorobutadiene
Concen: 40.581 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:225 Resp: 216529

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.6	94.7
227	64.0	31.8	95.4



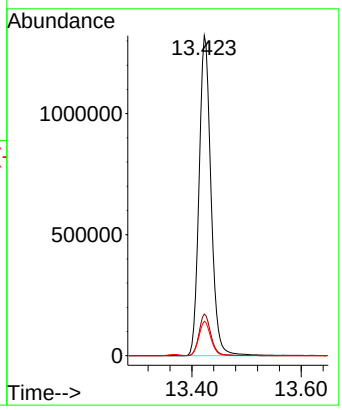


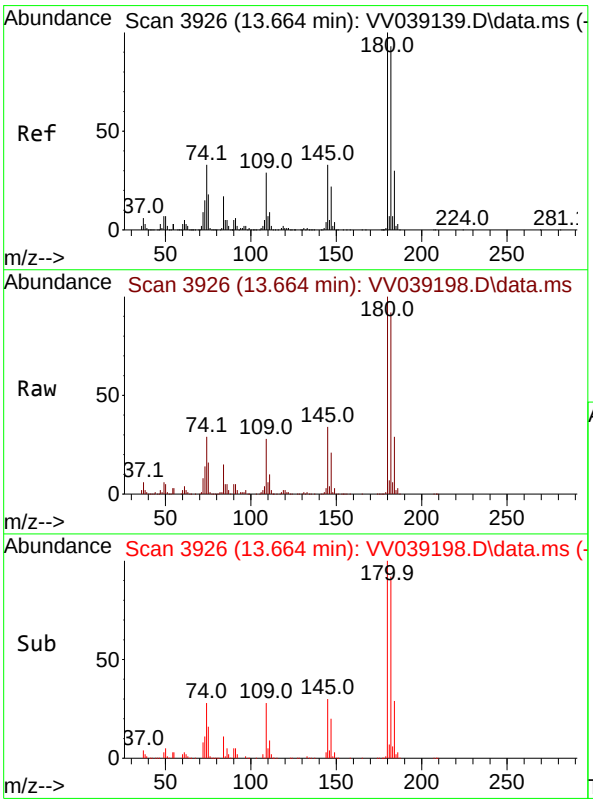
#95
Naphthalene
Concen: 60.159 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 1996722

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.6	8.6	13.0

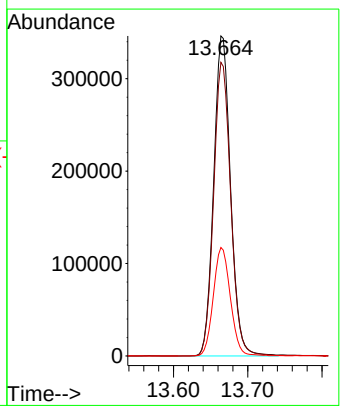




#96
1,2,3-Trichlorobenzene
Concen: 52.133 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:180 Resp: 547531

Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.9	140.8
145	34.3	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.791	0.698	11.8	95	0.00
3	P	Chloromethane	0.850	0.736	13.4	96	0.00
4	C	Vinyl Chloride	0.910	0.844	7.3#	102	0.00
5	T	Bromomethane	0.573	0.514	10.3	102	0.00
6	T	Chloroethane	0.631	0.532	15.7	101	0.00
7	T	Trichlorofluoromethane	1.317	1.229	6.7	104	0.00
8	T	Diethyl Ether	0.489	0.483	1.2	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.784	0.749	4.5	108	0.00
10	T	Methyl Iodide	0.746	0.735	1.5	94	0.00
11	T	Tert butyl alcohol	0.153	0.163	-6.5	120	0.00
12	CM	1,1-Dichloroethene	0.754	0.714	5.3#	107	0.00
13	T	Acrolein	0.027	0.028	-3.7	106	0.00
14	T	Allyl chloride	1.347	1.236	8.2	100	0.00
15	T	Acrylonitrile	0.490	0.473	3.5	109	0.00
16	T	Acetone	0.523	0.568	-8.6	128	0.00
17	T	Carbon Disulfide	2.306	2.040	11.5	99	0.00
18	T	Methyl Acetate	1.072	1.106	-3.2	114	0.00
19	T	Methyl tert-butyl Ether	2.402	2.440	-1.6	110	0.00
20	T	Methylene Chloride	1.066	0.831	22.0#	108	0.00
21	T	trans-1,2-Dichloroethene	0.803	0.750	6.6	104	0.00
22	T	Diisopropyl ether	2.576	2.396	7.0	96	0.00
23	T	Vinyl Acetate	2.254	2.131	5.5	98	0.00
24	P	1,1-Dichloroethane	1.576	1.404	10.9	102	0.00
25	T	2-Butanone	0.579	0.645	-11.4	111	0.00
26	T	2,2-Dichloropropane	1.397	1.152	17.5	94	0.00
27	T	cis-1,2-Dichloroethene	0.885	0.866	2.1	101	0.00
28	T	Bromochloromethane	0.696	0.693	0.4	103	0.00
29	T	Tetrahydrofuran	0.363	0.374	-3.0	102	0.00
30	C	Chloroform	1.645	1.456	11.5#	99	0.00
31	T	Cyclohexane	1.291	1.107	14.3	90	0.00
32	T	1,1,1-Trichloroethane	1.424	1.256	11.8	98	0.00
33	S	1,2-Dichloroethane-d4	0.724	0.673	7.0	105	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.402	0.406	-1.0	107	0.00
36	T	1,1-Dichloropropene	0.608	0.593	2.5	95	0.00
37	T	Ethyl Acetate	0.737	0.703	4.6	98	0.00
38	T	Carbon Tetrachloride	0.743	0.677	8.9	96	0.00
39	T	Methylcyclohexane	0.734	0.718	2.2	87	0.00
40	TM	Benzene	1.979	1.939	2.0	97	0.00
41	T	Methacrylonitrile	0.273	0.324	-18.7	98	0.00
42	TM	1,2-Dichloroethane	0.693	0.652	5.9	98	0.00
43	T	Isopropyl Acetate	1.005	1.061	-5.6	99	0.00
44	TM	Trichloroethene	0.457	0.469	-2.6	101	0.00
45	C	1,2-Dichloropropane	0.492	0.493	-0.2#	98	0.00
46	T	Dibromomethane	0.376	0.378	-0.5	102	0.00
47	T	Bromodichloromethane	0.778	0.742	4.6	98	0.00
48	T	Methyl methacrylate	0.456	0.501	-9.9	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.009	-28.6#	120	0.00
50	S	Toluene-d8	1.181	1.181	0.0	104	0.00
51	T	4-Methyl-2-Pentanone	0.661	0.725	-9.7	99	0.00
52	CM	Toluene	1.147	1.207	-5.2#	98	0.00
53	T	t-1,3-Dichloropropene	0.678	0.734	-8.3	100	0.00
54	T	cis-1,3-Dichloropropene	0.749	0.806	-7.6	99	0.00
55	T	1,1,2-Trichloroethane	0.514	0.512	0.4	103	0.00
56	T	Ethyl methacrylate	0.611	0.740	-21.1#	103	0.00
57	T	1,3-Dichloropropane	0.812	0.829	-2.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.267	0.356	-33.3#	100	0.00
59	T	2-Hexanone	0.463	0.570	-23.1#	104	0.00
60	T	Dibromochloromethane	0.586	0.587	-0.2	103	0.00
61	T	1,2-Dibromoethane	0.526	0.553	-5.1	104	0.00
62	S	4-Bromofluorobenzene	0.486	0.558	-14.8	110	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.419	0.418	0.2	100	0.00
65	PM	Chlorobenzene	1.393	1.391	0.1	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.503	0.494	1.8	100	0.00
67	C	Ethyl Benzene	2.108	2.309	-9.5#	96	0.00
68	T	m/p-Xylenes	0.814	0.937	-15.1	97	0.00
69	T	o-Xylene	0.720	0.840	-16.7	98	0.00
70	T	Styrene	1.263	1.544	-22.2#	98	0.00
71	P	Bromoform	0.393	0.425	-8.1	106	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.627	3.794	-4.6	94	0.00
74	T	N-amyl acetate	1.447	1.656	-14.4	97	0.00
75	P	1,1,2,2-Tetrachloroethane	1.589	1.478	7.0	101	0.00
76	T	1,2,3-Trichloropropane	1.138	1.080	5.1	100	0.00
77	T	Bromobenzene	0.941	0.966	-2.7	102	0.00
78	T	n-propylbenzene	4.416	4.577	-3.6	91	0.00
79	T	2-Chlorotoluene	2.643	2.801	-6.0	96	0.00
80	T	1,3,5-Trimethylbenzene	3.014	3.241	-7.5	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.474	0.507	-7.0	100	0.00
82	T	4-Chlorotoluene	3.064	3.308	-8.0	97	0.00
83	T	tert-Butylbenzene	3.006	3.043	-1.2	92	0.00
84	T	1,2,4-Trimethylbenzene	2.926	3.249	-11.0	94	0.00
85	T	sec-Butylbenzene	3.987	3.963	0.6	89	0.00
86	T	p-Isopropyltoluene	3.318	3.351	-1.0	89	0.00
87	T	1,3-Dichlorobenzene	1.904	1.883	1.1	99	0.00
88	T	1,4-Dichlorobenzene	2.089	1.913	8.4	96	0.00
89	T	n-Butylbenzene	3.169	3.192	-0.7	86	0.00
90	T	Hexachloroethane	0.817	0.674	17.5	90	0.00
91	T	1,2-Dichlorobenzene	1.779	1.780	-0.1	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.330	0.312	5.5	107	0.00
93	T	1,2,4-Trichlorobenzene	1.020	1.046	-2.5	95	0.00
94	T	Hexachlorobutadiene	0.530	0.430	18.9	87	0.00
95	T	Naphthalene	3.296	3.966	-20.3#	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.088	-4.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	50.000	44.079	11.8	95	0.00
3	P	Chloromethane	50.000	43.290	13.4	96	0.00
4	C	Vinyl Chloride	50.000	46.394	7.2#	102	0.00
5	T	Bromomethane	50.000	44.774	10.5	102	0.00
6	T	Chloroethane	50.000	49.614	0.8	101	0.00
7	T	Trichlorofluoromethane	50.000	46.665	6.7	104	0.00
8	T	Diethyl Ether	50.000	49.434	1.1	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.774	4.5	108	0.00
10	T	Methyl Iodide	50.000	49.215	1.6	94	0.00
11	T	Tert butyl alcohol	250.000	267.036	-6.8	120	0.00
12	CM	1,1-Dichloroethene	50.000	47.323	5.4#	107	0.00
13	T	Acrolein	250.000	261.435	-4.6	106	0.00
14	T	Allyl chloride	50.000	45.886	8.2	100	0.00
15	T	Acrylonitrile	250.000	241.006	3.6	109	0.00
16	T	Acetone	250.000	325.476	-30.2#	128	0.00
17	T	Carbon Disulfide	50.000	44.250	11.5	99	0.00
18	T	Methyl Acetate	50.000	51.580	-3.2	114	0.00
19	T	Methyl tert-butyl Ether	50.000	50.786	-1.6	110	0.00
20	T	Methylene Chloride	50.000	53.373	-6.7	108	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.707	6.6	104	0.00
22	T	Diisopropyl ether	50.000	46.500	7.0	96	0.00
23	T	Vinyl Acetate	250.000	236.375	5.5	98	0.00
24	P	1,1-Dichloroethane	50.000	44.562	10.9	102	0.00
25	T	2-Butanone	250.000	278.360	-11.3	111	0.00
26	T	2,2-Dichloropropane	50.000	41.232	17.5	94	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.927	2.1	101	0.00
28	T	Bromochloromethane	50.000	49.825	0.3	103	0.00
29	T	Tetrahydrofuran	250.000	257.902	-3.2	102	0.00
30	C	Chloroform	50.000	44.235	11.5#	99	0.00
31	T	Cyclohexane	50.000	42.889	14.2	90	0.00
32	T	1,1,1-Trichloroethane	50.000	44.086	11.8	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.473	7.1	105	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	50.482	-1.0	107	0.00
36	T	1,1-Dichloropropene	50.000	48.754	2.5	95	0.00
37	T	Ethyl Acetate	50.000	47.654	4.7	98	0.00
38	T	Carbon Tetrachloride	50.000	45.581	8.8	96	0.00
39	T	Methylcyclohexane	50.000	48.939	2.1	87	0.00
40	TM	Benzene	50.000	48.985	2.0	97	0.00
41	T	Methacrylonitrile	50.000	48.677	2.6	98	0.00
42	TM	1,2-Dichloroethane	50.000	47.000	6.0	98	0.00
43	T	Isopropyl Acetate	50.000	52.745	-5.5	99	0.00
44	TM	Trichloroethene	50.000	51.312	-2.6	101	0.00
45	C	1,2-Dichloropropane	50.000	50.116	-0.2#	98	0.00
46	T	Dibromomethane	50.000	50.160	-0.3	102	0.00
47	T	Bromodichloromethane	50.000	47.672	4.7	98	0.00
48	T	Methyl methacrylate	50.000	54.936	-9.9	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1229.438	-22.9#	120	0.00
50	S	Toluene-d8	50.000	50.021	-0.0	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	273.983	-9.6	99	0.00
52	CM	Toluene	50.000	52.600	-5.2#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	54.120	-8.2	100	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.795	-7.6	99	0.00
55	T	1,1,2-Trichloroethane	50.000	49.741	0.5	103	0.00
56	T	Ethyl methacrylate	50.000	60.567	-21.1#	103	0.00
57	T	1,3-Dichloropropane	50.000	51.050	-2.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	257.371	-2.9	100	0.00
59	T	2-Hexanone	250.000	266.941	-6.8	104	0.00
60	T	Dibromochloromethane	50.000	50.091	-0.2	103	0.00
61	T	1,2-Dibromoethane	50.000	52.515	-5.0	104	0.00
62	S	4-Bromofluorobenzene	50.000	57.366	-14.7	110	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	49.940	0.1	100	0.00
65	PM	Chlorobenzene	50.000	49.953	0.1	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.105	1.8	100	0.00
67	C	Ethyl Benzene	50.000	54.765	-9.5#	96	0.00
68	T	m/p-Xylenes	100.000	115.152	-15.2	97	0.00
69	T	o-Xylene	50.000	58.277	-16.6	98	0.00
70	T	Styrene	50.000	50.578	-1.2	98	0.00
71	P	Bromoform	50.000	54.097	-8.2	106	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	52.314	-4.6	94	0.00
74	T	N-amyl acetate	50.000	57.243	-14.5	97	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.497	7.0	101	0.00
76	T	1,2,3-Trichloropropane	50.000	47.449	5.1	100	0.00
77	T	Bromobenzene	50.000	51.325	-2.7	102	0.00
78	T	n-propylbenzene	50.000	51.822	-3.6	91	0.00
79	T	2-Chlorotoluene	50.000	52.993	-6.0	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.760	-7.5	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	53.459	-6.9	100	0.00
82	T	4-Chlorotoluene	50.000	53.976	-8.0	97	0.00
83	T	tert-Butylbenzene	50.000	50.617	-1.2	92	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.520	-11.0	94	0.00
85	T	sec-Butylbenzene	50.000	49.696	0.6	89	0.00
86	T	p-Isopropyltoluene	50.000	50.491	-1.0	89	0.00
87	T	1,3-Dichlorobenzene	50.000	49.438	1.1	99	0.00
88	T	1,4-Dichlorobenzene	50.000	45.789	8.4	96	0.00
89	T	n-Butylbenzene	50.000	50.362	-0.7	86	0.00
90	T	Hexachloroethane	50.000	41.222	17.6	90	0.00
91	T	1,2-Dichlorobenzene	50.000	50.024	-0.0	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.339	-8.7	107	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.259	-2.5	95	0.00
94	T	Hexachlorobutadiene	50.000	40.581	18.8	87	0.00
95	T	Naphthalene	50.000	60.159	-20.3#	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.133	-4.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/29/2025 11:11

Lab File ID: VV039221.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.792	0.659		-16.79	20
Chloromethane	0.850	0.707	0.1	-16.82	20
Vinyl Chloride	0.910	0.786		-13.63	20
Bromomethane	0.573	0.490		-14.48	20
Chloroethane	0.631	0.491		-22.19	20
Trichlorofluoromethane	1.317	1.189		-9.72	20
1,1,2-Trichlorotrifluoroethane	0.784	0.724		-7.65	20
1,1-Dichloroethene	0.754	0.695		-7.82	20
Acetone	0.523	0.434		-17.02	20
Carbon Disulfide	2.306	1.828		-20.73	20
Methyl tert-butyl Ether	2.402	2.254		-6.16	20
Methyl Acetate	1.072	1.050		-2.05	20
Methylene Chloride	1.066	0.767		-28.05	20
trans-1,2-Dichloroethene	0.803	0.724		-9.84	20
1,1-Dichloroethane	1.576	1.334	0.1	-15.35	20
Cyclohexane	1.291	1.037		-19.67	20
2-Butanone	0.579	0.558		-3.63	20
Carbon Tetrachloride	0.743	0.703		-5.38	20
cis-1,2-Dichloroethene	0.885	0.827		-6.55	20
Bromochloromethane	0.696	0.617		-11.35	20
Chloroform	1.645	1.392		-15.38	20
1,1,1-Trichloroethane	1.424	1.220		-14.33	20
Methylcyclohexane	0.734	0.707		-3.68	20
Benzene	1.979	1.913		-3.34	20
1,2-Dichloroethane	0.693	0.637		-8.08	20
Trichloroethene	0.457	0.476		4.16	20
1,2-Dichloropropane	0.492	0.485		-1.42	20
Bromodichloromethane	0.778	0.737		-5.27	20
4-Methyl-2-Pentanone	0.661	0.717		8.47	20
Toluene	1.147	1.217		6.1	20
t-1,3-Dichloropropene	0.678	0.731		7.82	20
cis-1,3-Dichloropropene	0.749	0.796		6.28	20
1,1,2-Trichloroethane	0.514	0.522		1.56	20
2-Hexanone	0.463	0.545		17.71	20
Dibromochloromethane	0.586	0.600		2.39	20
1,2-Dibromoethane	0.526	0.548		4.18	20
Tetrachloroethene	0.419	0.432		3.1	20
Chlorobenzene	1.393	1.410	0.3	1.22	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/29/2025 11:11

Lab File ID: VV039221.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.108	2.316		9.87	20
m/p-Xylenes	0.814	0.942		15.73	20
o-Xylene	0.720	0.851		18.19	20
Styrene	1.263	1.571		24.39	20
Bromoform	0.393	0.447	0.1	13.74	20
Isopropylbenzene	3.627	3.675		1.32	20
1,1,2,2-Tetrachloroethane	1.589	1.385	0.3	-12.84	20
1,3-Dichlorobenzene	1.904	1.869		-1.84	20
1,4-Dichlorobenzene	2.089	1.939		-7.18	20
1,2-Dichlorobenzene	1.779	1.743		-2.02	20
1,2-Dibromo-3-Chloropropane	0.330	0.301		-8.79	20
1,2,4-Trichlorobenzene	1.020	1.091		6.96	20
1,2,3-Trichlorobenzene	1.043	1.094		4.89	20
1,2-Dichloroethane-d4	0.724	0.620		-14.36	20
Dibromofluoromethane	0.402	0.411		2.24	20
Toluene-d8	1.181	1.144		-3.13	20
4-Bromofluorobenzene	0.486	0.554		13.99	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.596	168	564484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	842301	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	811375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	505725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	349728	42.808	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 85.620%			
35) Dibromofluoromethane	4.497	113	346022	51.100	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 102.200%			
50) Toluene-d8	7.233	98	963722	48.458	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 96.920%			
62) 4-Bromofluorobenzene	10.001	95	466775	57.013	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 114.020%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	372146	41.647	ug/l	98
3) Chloromethane	1.227	50	399012	41.595	ug/l	100
4) Vinyl Chloride	1.294	62	443737	43.208	ug/l	99
5) Bromomethane	1.494	94	276563	42.719	ug/l	100
6) Chloroethane	1.558	64	277414	45.569	ug/l	98
7) Trichlorofluoromethane	1.722	101	671148	45.139	ug/l	99
8) Diethyl Ether	1.918	74	248163	44.959	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.079	101	408668	46.193	ug/l	96
10) Methyl Iodide	2.195	142	433468	51.451	ug/l	98
11) Tert butyl alcohol	2.571	59	443947	257.107	ug/l	99
12) 1,1-Dichloroethene	2.079	96	392230	46.086	ug/l	89
13) Acrolein	2.008	56	67411	224.989	ug/l	98
14) Allyl chloride	2.355	41	668296	43.958	ug/l	96
15) Acrylonitrile	2.674	53	1243040	224.569	ug/l	99
16) Acetone	2.118	43	1224774	241.983	ug/l	97
17) Carbon Disulfide	2.249	76	1031891	39.644	ug/l	99
18) Methyl Acetate	2.378	43	592823	48.974	ug/l	97
19) Methyl tert-butyl Ether	2.712	73	1272065	46.904	ug/l	98
20) Methylene Chloride	2.455	84	432857	48.961	ug/l	93
21) trans-1,2-Dichloroethene	2.699	96	408823	45.121	ug/l	97
22) Diisopropyl ether	3.214	45	1269043	43.628	ug/l	94
23) Vinyl Acetate	3.188	43	5603106	220.202	ug/l	96
24) 1,1-Dichloroethane	3.114	63	752929	42.328	ug/l	99
25) 2-Butanone	3.867	43	1573946	240.588	ug/l	96
26) 2,2-Dichloropropane	3.809	77	655070	41.534	ug/l	100
27) cis-1,2-Dichloroethene	3.815	96	466569	46.691	ug/l	96
28) Bromochloromethane	4.143	49	348213	44.343	ug/l	90
29) Tetrahydrofuran	4.236	42	984175	240.344	ug/l	96
30) Chloroform	4.275	83	785637	42.297	ug/l	99
31) Cyclohexane	4.580	56	585623	40.190	ug/l	100
32) 1,1,1-Trichloroethane	4.510	97	688441	42.812	ug/l	98
36) 1,1-Dichloropropene	4.741	75	497503	48.595	ug/l	98
37) Ethyl Acetate	3.973	43	587710	47.309	ug/l	97
38) Carbon Tetrachloride	4.732	117	592185	47.329	ug/l	99
39) Methylcyclohexane	6.043	83	595570	48.172	ug/l	99
40) Benzene	5.005	78	1611342	48.334	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.156	41	270101	48.162	ug/l		98
42) 1,2-Dichloroethane	5.037	62	536537	45.932	ug/l		98
43) Isopropyl Acetate	5.191	43	863524	50.981	ug/l		97
44) Trichloroethene	5.828	130	401095	52.139	ug/l		100
45) 1,2-Dichloropropane	6.088	63	408473	49.295	ug/l		97
46) Dibromomethane	6.223	93	311150	49.060	ug/l		93
47) Bromodichloromethane	6.423	83	620639	47.336	ug/l		98
48) Methyl methacrylate	6.294	41	410277	53.435	ug/l		96
49) 1,4-Dioxane	6.291	88	135545	1093.922	ug/l		95
51) 4-Methyl-2-Pentanone	7.146	43	3020119	271.028	ug/l		97
52) Toluene	7.307	92	1025430	53.051	ug/l		97
53) t-1,3-Dichloropropene	7.571	75	616048	53.914	ug/l		98
54) cis-1,3-Dichloropropene	6.947	75	670138	53.126	ug/l		98
55) 1,1,2-Trichloroethane	7.760	97	439583	50.719	ug/l		97
56) Ethyl methacrylate	7.715	69	605076	58.788	ug/l		96
57) 1,3-Dichloropropane	7.934	76	688890	50.365	ug/l		100
58) 2-Chloroethyl Vinyl ether	6.809	63	1364182	235.318	ug/l		96
59) 2-Hexanone	8.063	43	2296121	255.225	ug/l		96
60) Dibromochloromethane	8.165	129	505143	51.151	ug/l		98
61) 1,2-Dibromoethane	8.272	107	461742	52.094	ug/l		98
64) Tetrachloroethene	7.895	164	350917	51.636	ug/l		98
65) Chlorobenzene	8.802	112	1143668	50.604	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.895	131	419675	51.392	ug/l		99
67) Ethyl Benzene	8.937	91	1879090	54.927	ug/l		99
68) m/p-Xylenes	9.063	106	1528923	115.793	ug/l		100
69) o-Xylene	9.468	106	690511	59.062	ug/l		97
70) Styrene	9.484	104	1274646	51.432	ug/l		99
71) Bromoform	9.654	173	362804	56.878	ug/l	#	99
73) Isopropylbenzene	9.857	105	1858552	50.669	ug/l		99
74) N-amyl acetate	9.725	43	774283	52.920	ug/l		96
75) 1,1,2,2-Tetrachloroethane	10.165	83	700437	43.582	ug/l		99
76) 1,2,3-Trichloropropane	10.198	75	533949	46.372	ug/l		99
77) Bromobenzene	10.140	156	482692	50.721	ug/l		94
78) n-propylbenzene	10.278	91	2253738	50.455	ug/l		98
79) 2-Chlorotoluene	10.345	91	1360520	50.902	ug/l		99
80) 1,3,5-Trimethylbenzene	10.464	105	1608070	52.744	ug/l		100
81) trans-1,4-Dichloro-2-b...	9.927	75	244133	50.900	ug/l		97
82) 4-Chlorotoluene	10.461	91	1628242	52.536	ug/l		99
83) tert-Butylbenzene	10.789	119	1531883	50.388	ug/l		98
84) 1,2,4-Trimethylbenzene	10.837	105	1609100	54.363	ug/l		99
85) sec-Butylbenzene	11.011	105	1975626	48.994	ug/l		99
86) p-Isopropyltoluene	11.165	119	1687605	50.284	ug/l		99
87) 1,3-Dichlorobenzene	11.104	146	945060	49.068	ug/l		99
88) 1,4-Dichlorobenzene	11.198	146	980757	46.414	ug/l		99
89) n-Butylbenzene	11.580	91	1584773	49.442	ug/l		99
90) Hexachloroethane	11.821	117	340207	41.164	ug/l		94
91) 1,2-Dichlorobenzene	11.567	146	881445	48.984	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.352	75	152326	52.555	ug/l		93
93) 1,2,4-Trichlorobenzene	13.185	180	551570	53.472	ug/l		99
94) Hexachlorobutadiene	13.368	225	227281	42.405	ug/l		99
95) Naphthalene	13.426	128	1952932	58.576	ug/l		100
96) 1,2,3-Trichlorobenzene	13.667	180	553227	52.439	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

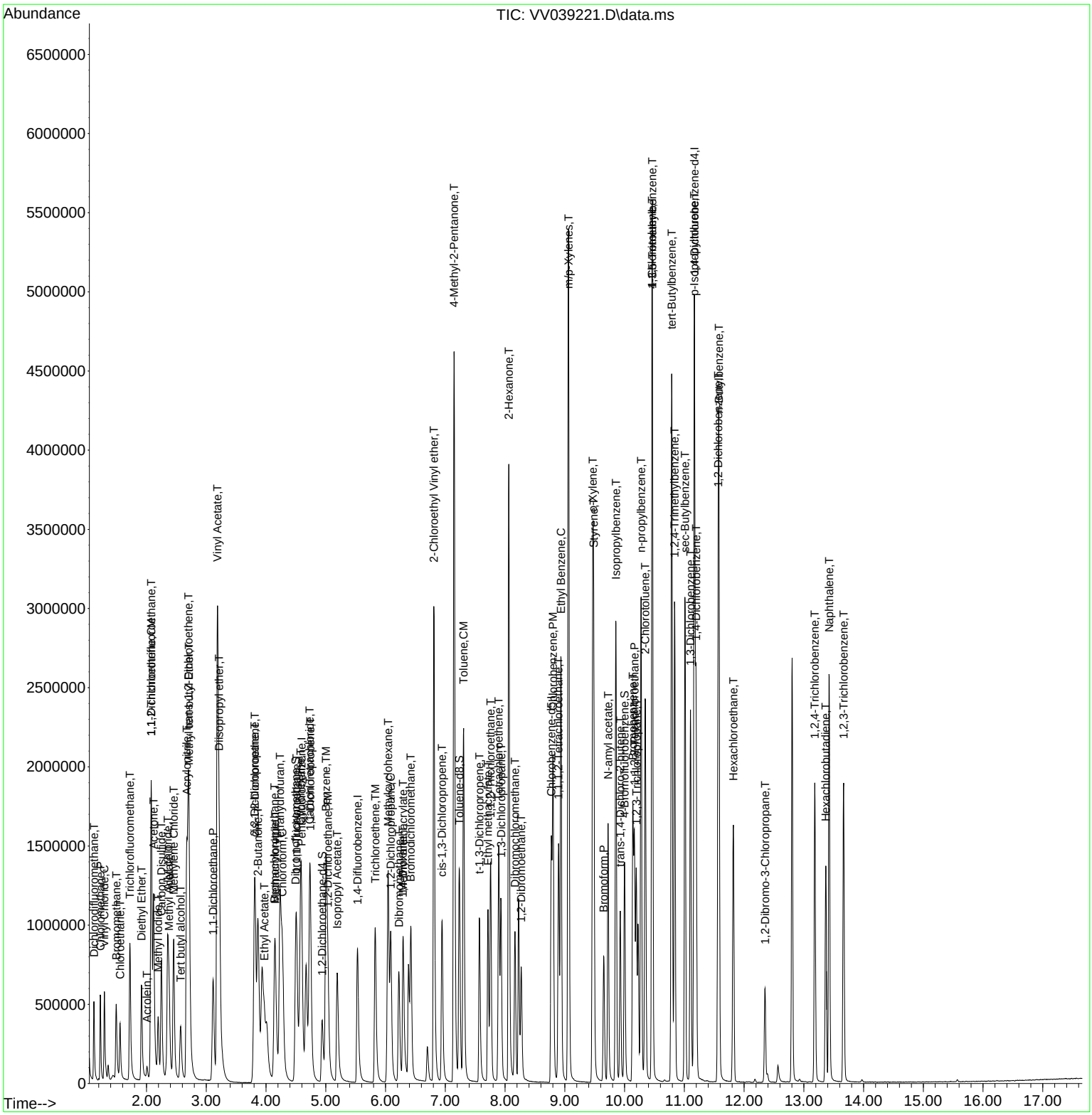
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

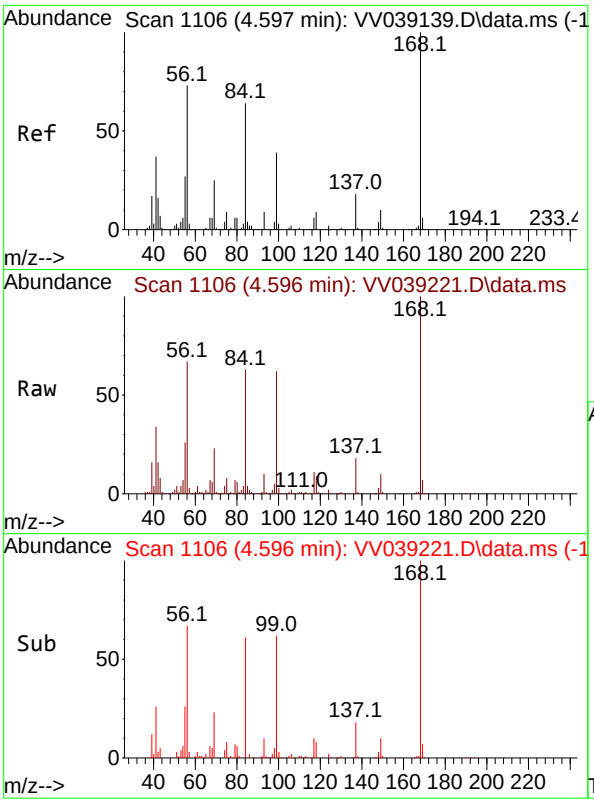
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



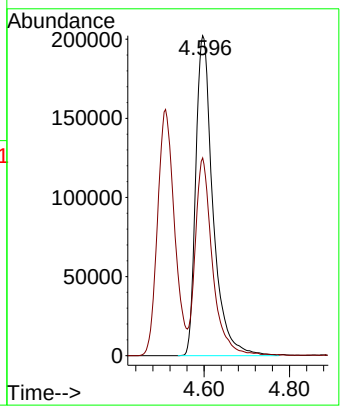


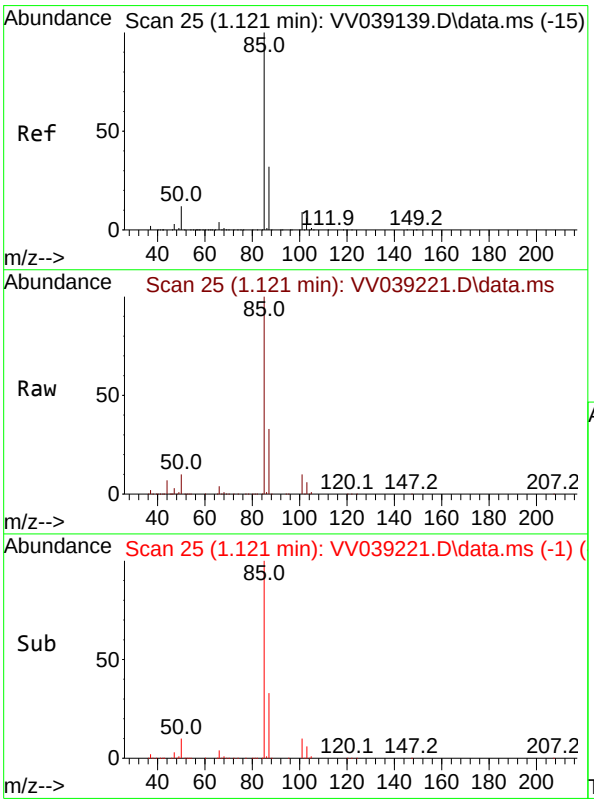
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 564484

Ion	Ratio	Lower	Upper
168	100		
99	61.5	49.6	74.4

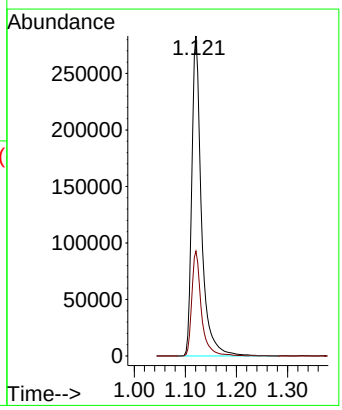


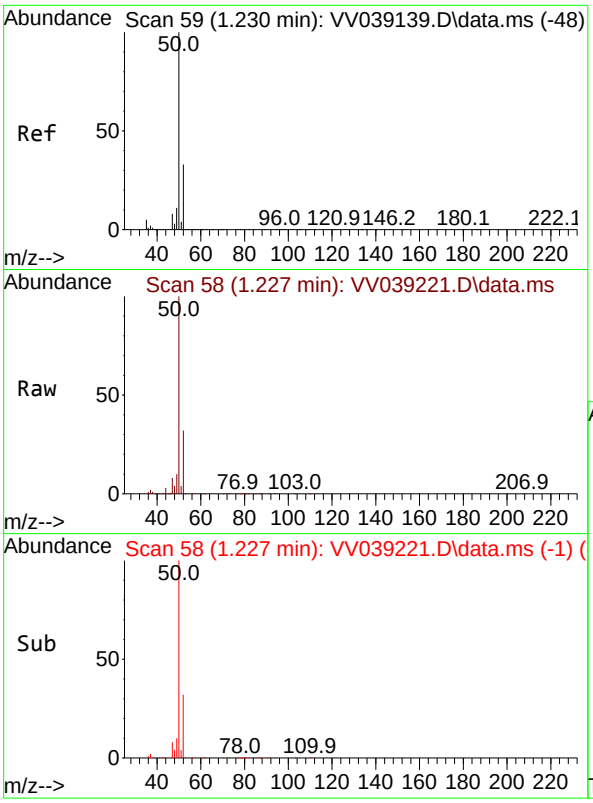


#2
Dichlorodifluoromethane
Concen: 41.647 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 85 Resp: 372146

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.0	47.9



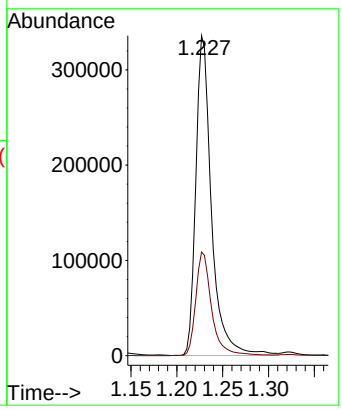


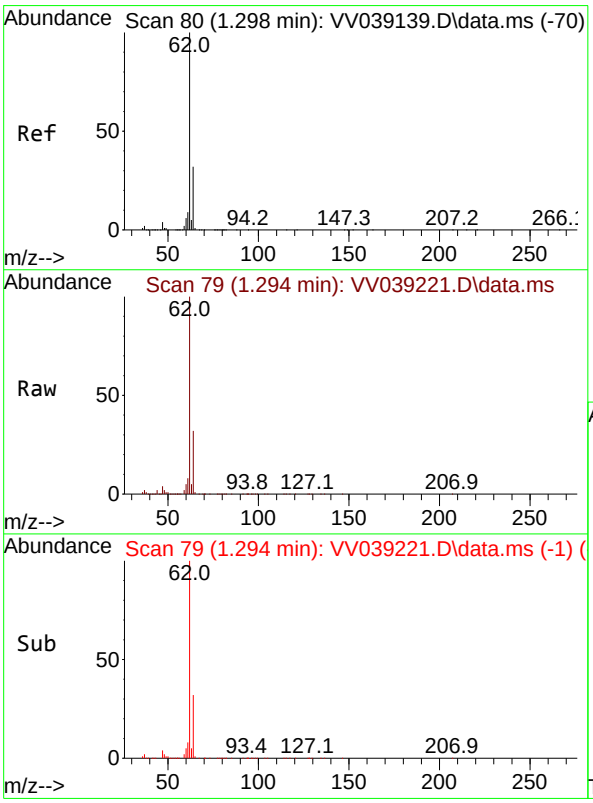
#3
Chloromethane
Concen: 41.595 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 399012

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.0	39.0

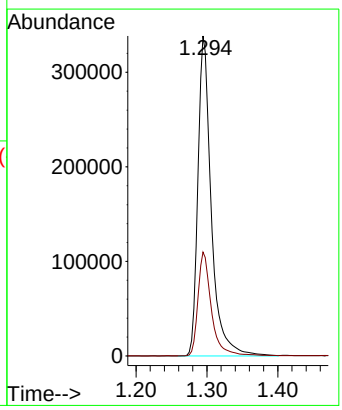


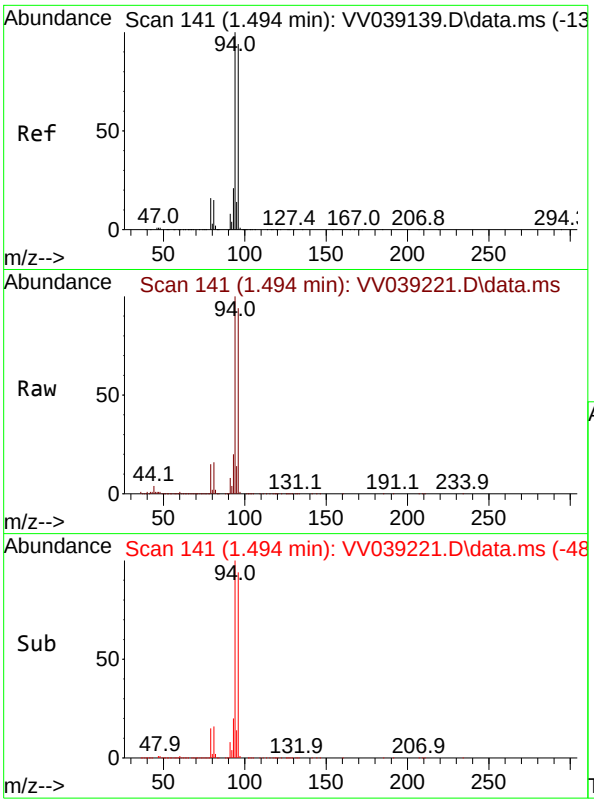


#4
Vinyl Chloride
Concen: 43.208 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 62 Resp: 443737

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.6	38.4



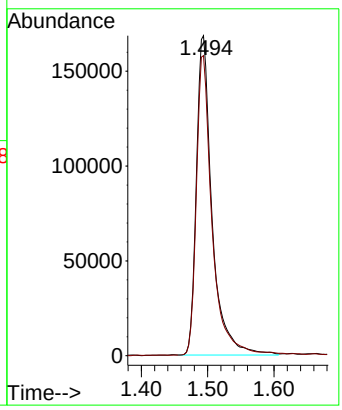


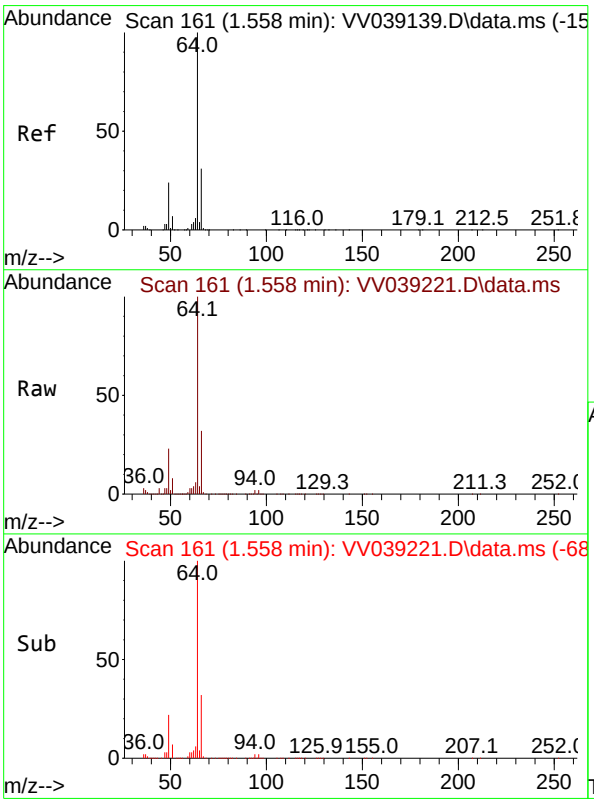
#5
Bromomethane
Concen: 42.719 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 276563

Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.9	112.3

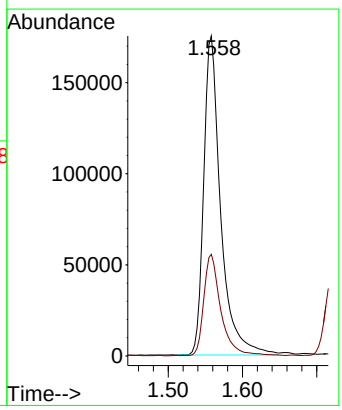


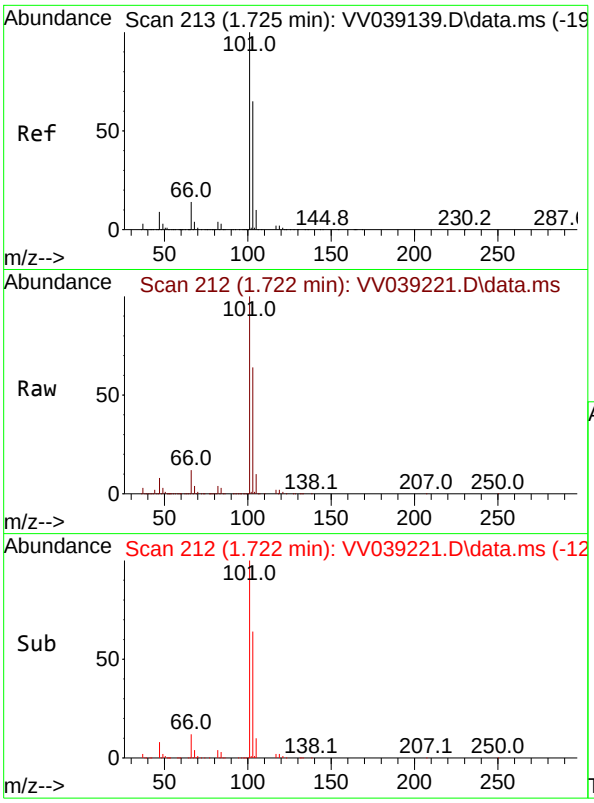


#6
Chloroethane
Concen: 45.569 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 64 Resp: 277414

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.6	36.8



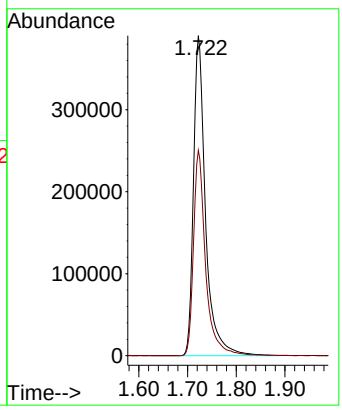


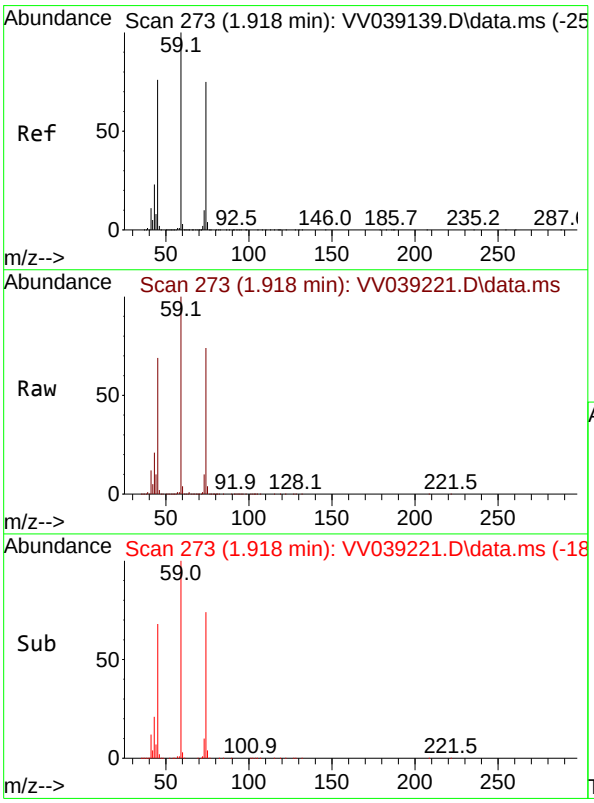
#7
Trichlorofluoromethane
Concen: 45.139 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 671148

Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.0	78.0

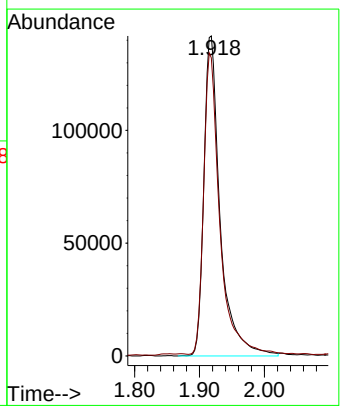


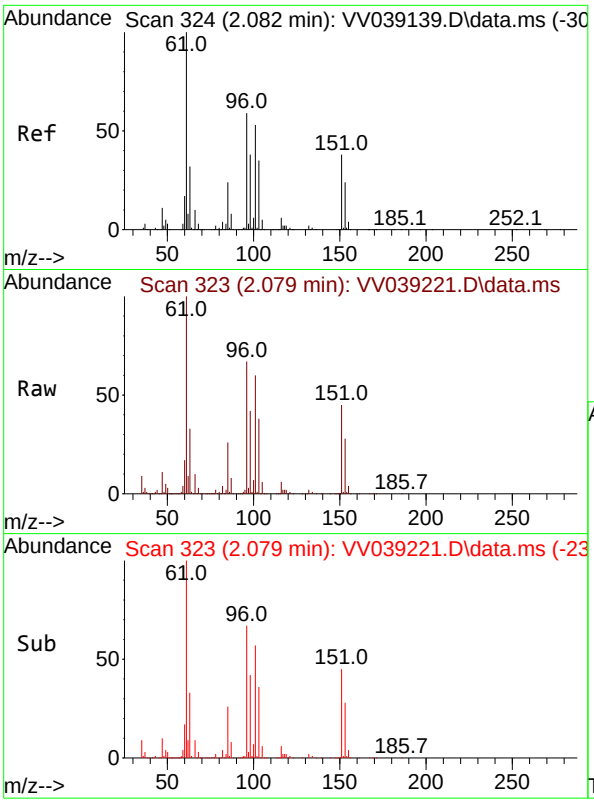


#8
Diethyl Ether
Concen: 44.959 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 74 Resp: 248163

Ion	Ratio	Lower	Upper
74	100		
45	92.9	49.6	148.8



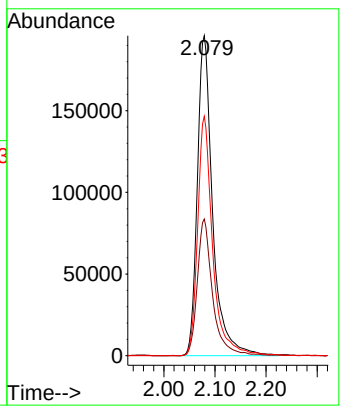


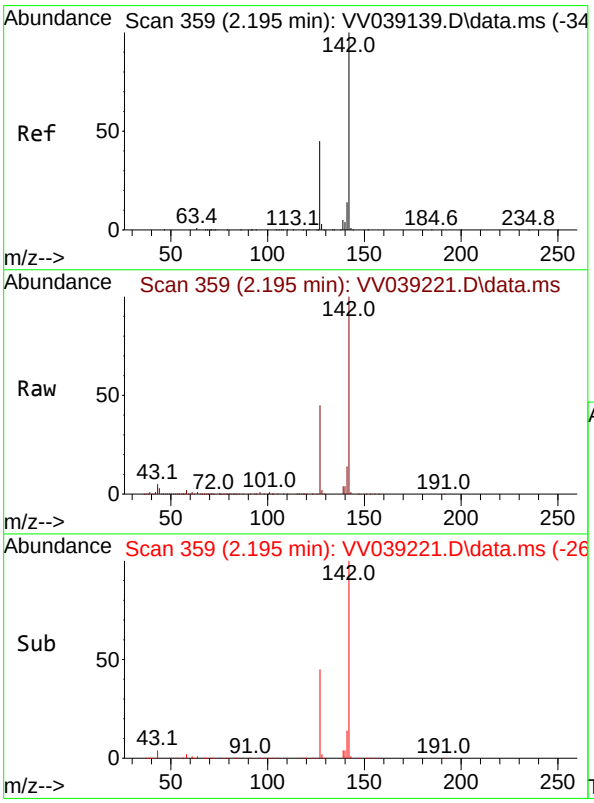
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.193 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 408668

Ion	Ratio	Lower	Upper
101	100		
85	42.7	36.2	54.2
151	73.4	56.3	84.5

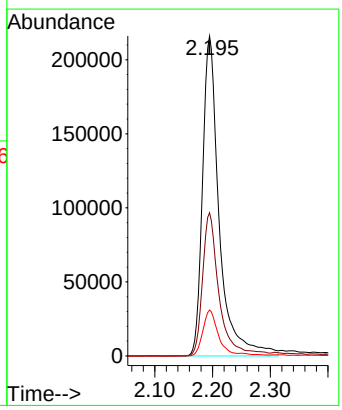


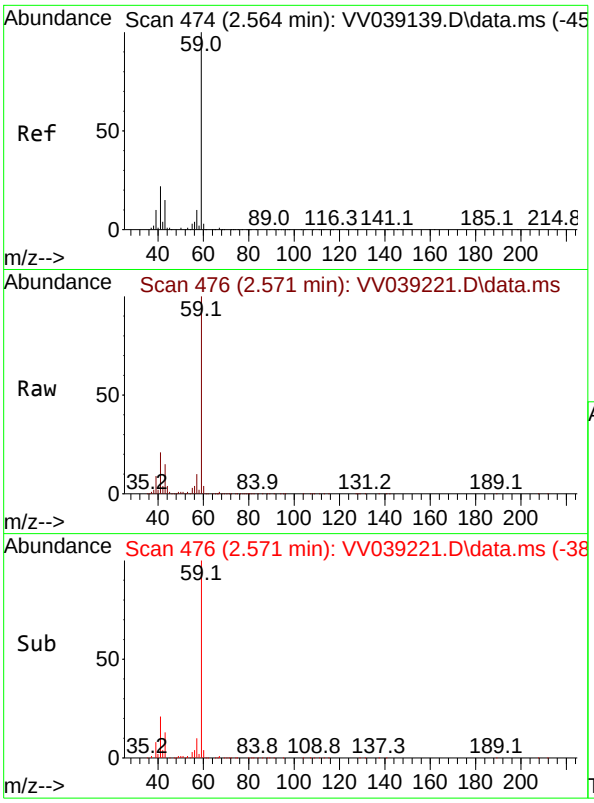


#10
Methyl Iodide
Concen: 51.451 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:142 Resp: 433468

Ion	Ratio	Lower	Upper
142	100		
127	44.3	36.3	54.5
141	13.1	11.2	16.8



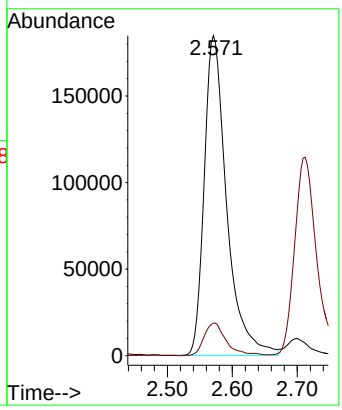


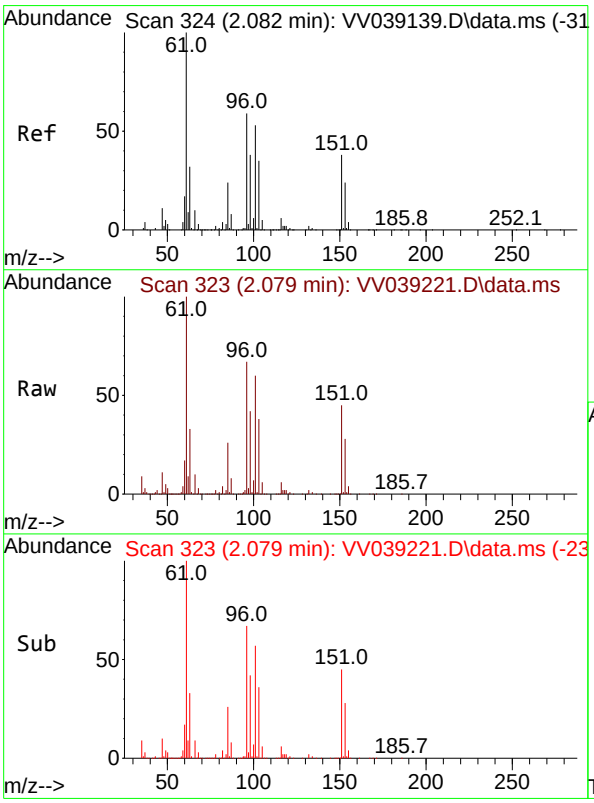
#11
Tert butyl alcohol
Concen: 257.107 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 443947

Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.8	11.8

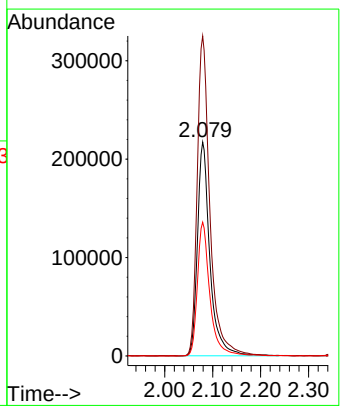


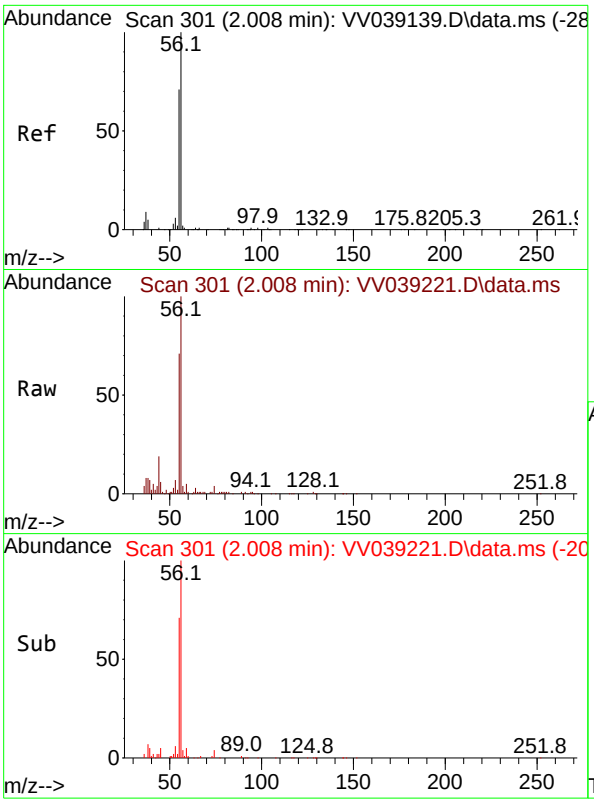


#12
1,1-Dichloroethene
Concen: 46.086 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 96 Resp: 392230

Ion	Ratio	Lower	Upper
96	100		
61	149.7	136.0	204.0
98	62.5	51.0	76.6



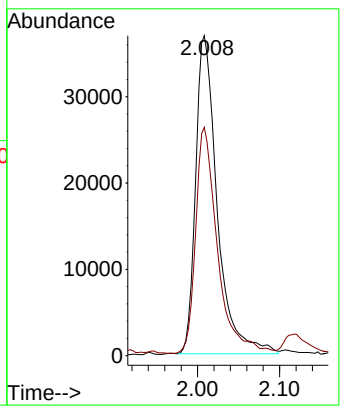


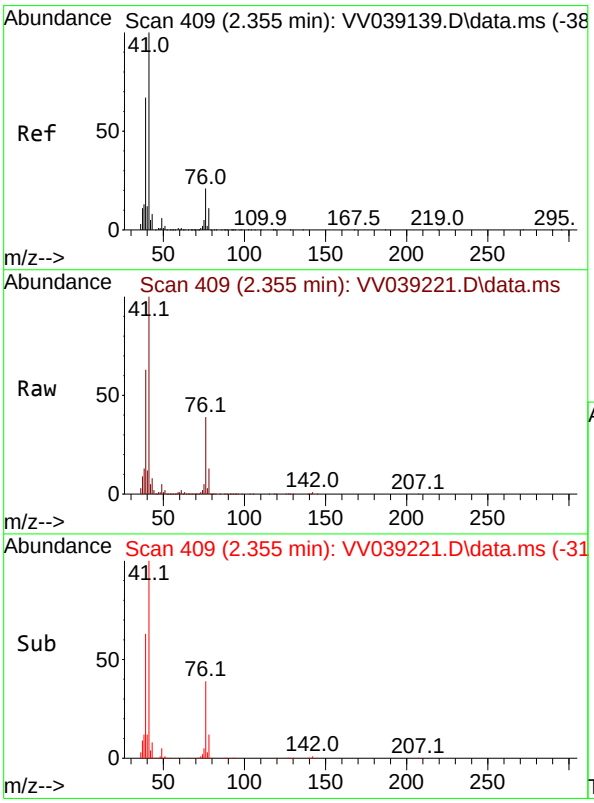
#13
Acrolein
Concen: 224.989 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 67411

Ion	Ratio	Lower	Upper
56	100		
55	71.8	56.2	84.4

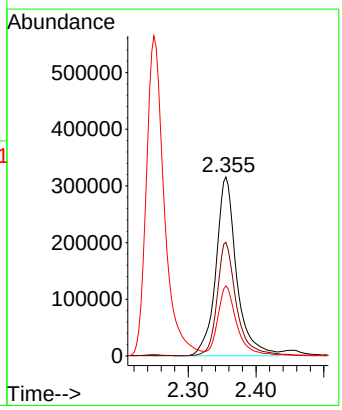


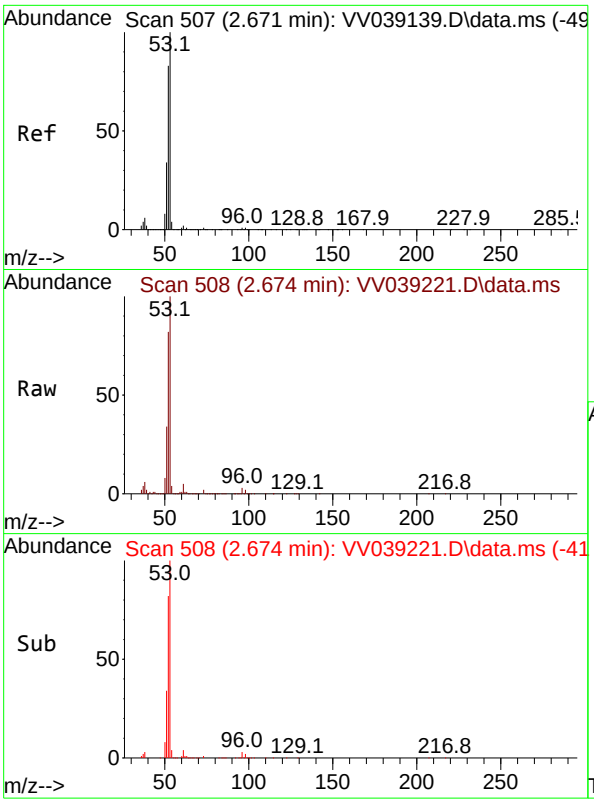


#14
Allyl chloride
Concen: 43.958 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 41 Resp: 668296

Ion	Ratio	Lower	Upper
41	100		
39	59.3	51.0	76.6
76	36.1	28.2	42.4



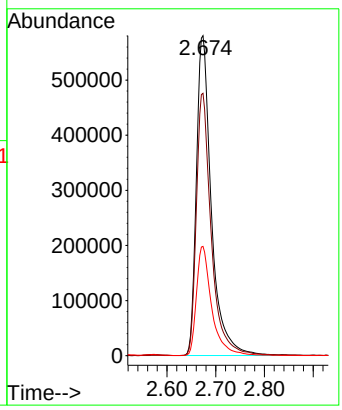


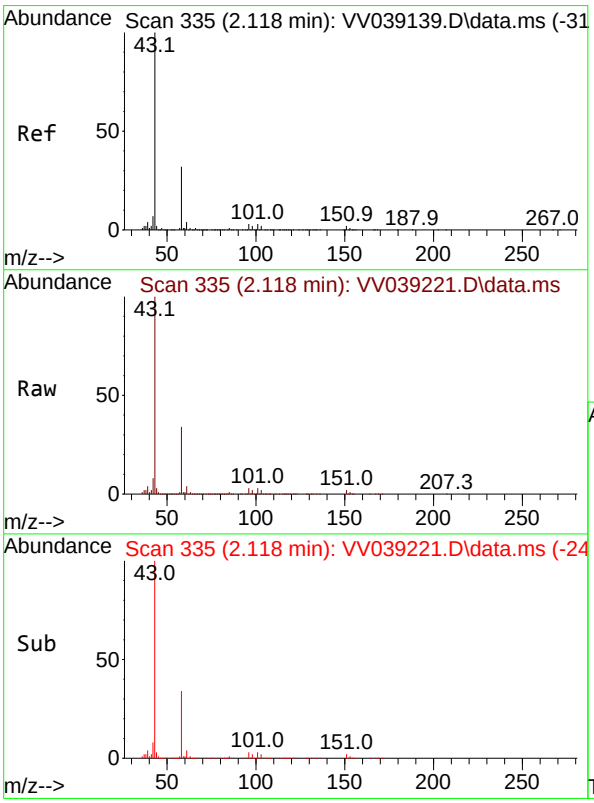
#15
Acrylonitrile
Concen: 224.569 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 1243040

Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.1	99.1
51	34.7	28.5	42.7

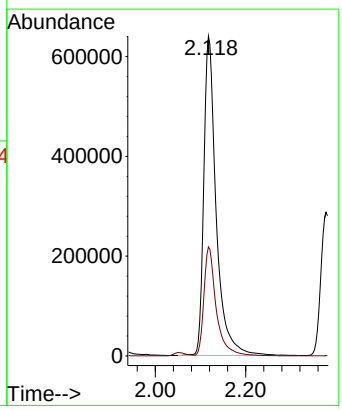


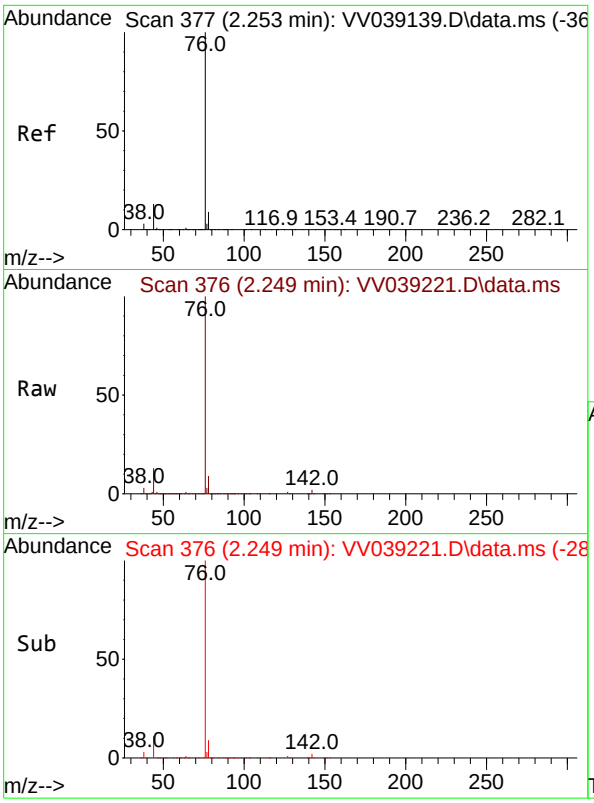


#16
Acetone
Concen: 241.983 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 43 Resp: 1224774

Ion	Ratio	Lower	Upper
43	100		
58	34.1	25.8	38.6



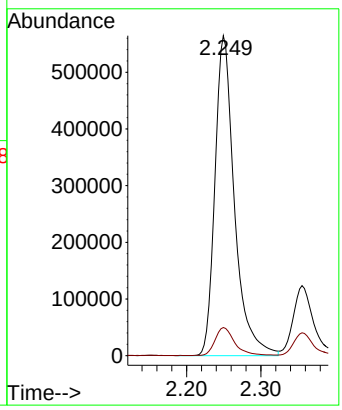


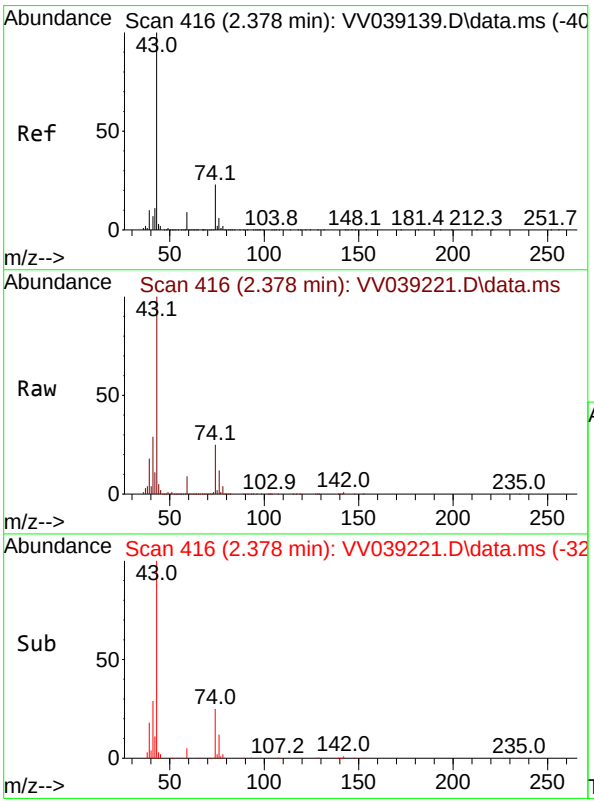
#17
Carbon Disulfide
Concen: 39.644 ug/l
RT: 2.249 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 1031891

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.0

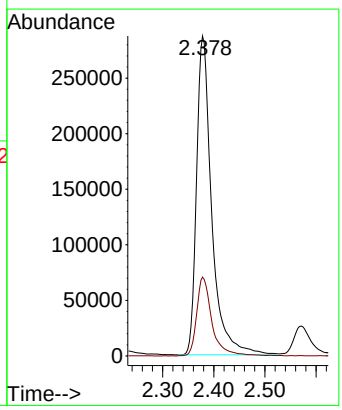


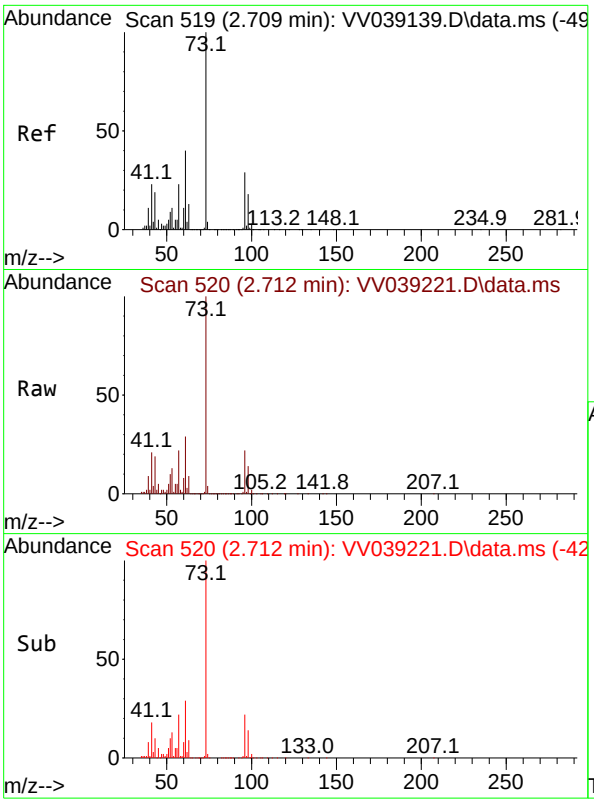


#18
Methyl Acetate
Concen: 48.974 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 43 Resp: 592823

Ion	Ratio	Lower	Upper
43	100		
74	24.8	18.6	27.8



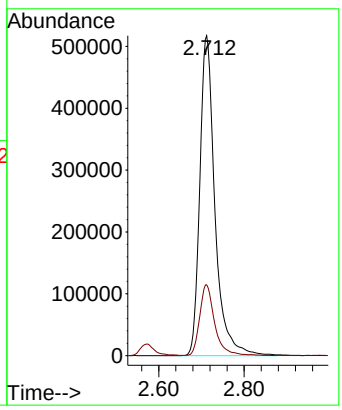


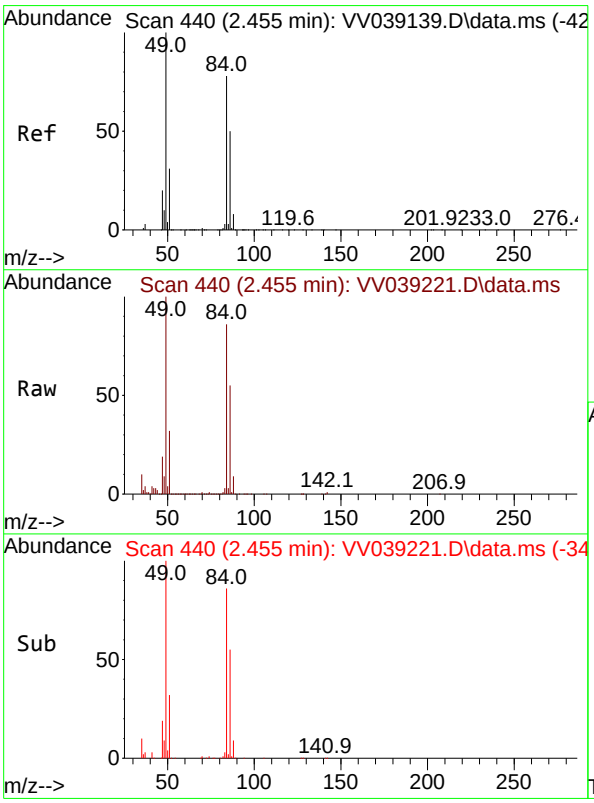
#19
Methyl tert-butyl Ether
Concen: 46.904 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 1272065

Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.2	27.4

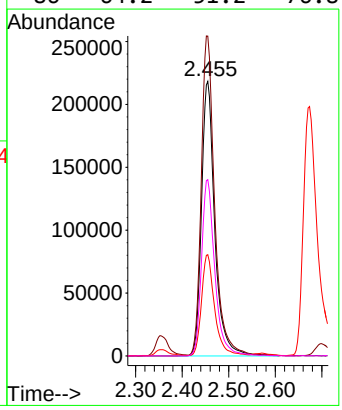


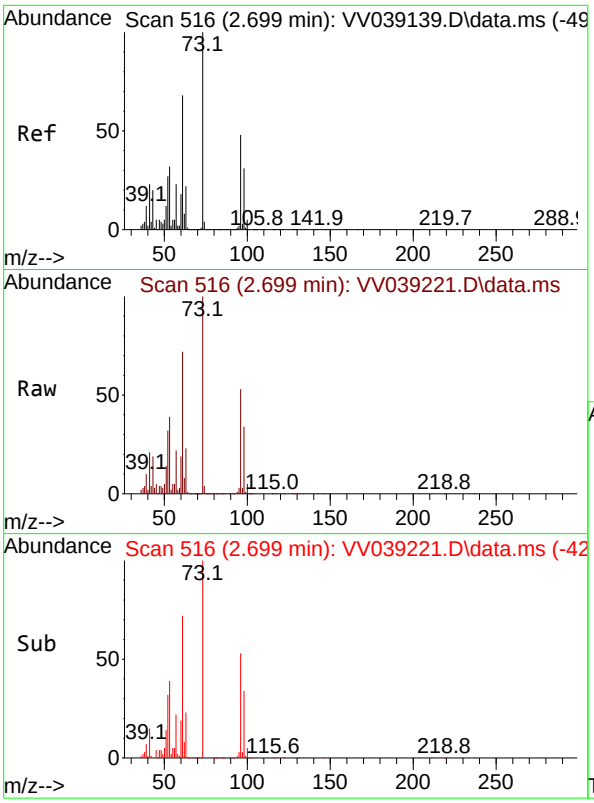


#20
Methylene Chloride
Concen: 48.961 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 84 Resp: 432857

Ion	Ratio	Lower	Upper
84	100		
49	116.4	102.8	154.2
51	36.6	31.9	47.9
86	64.2	51.2	76.8



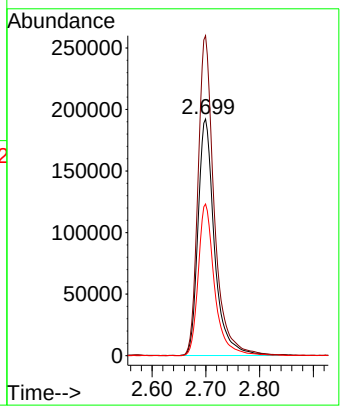


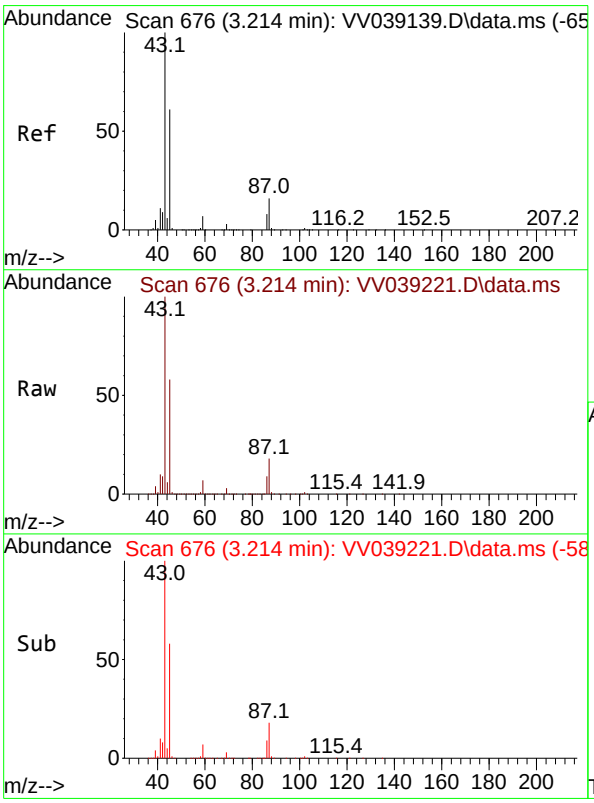
#21
trans-1,2-Dichloroethene
Concen: 45.121 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 408823

Ion	Ratio	Lower	Upper
96	100		
61	135.3	112.8	169.2
98	64.1	51.1	76.7

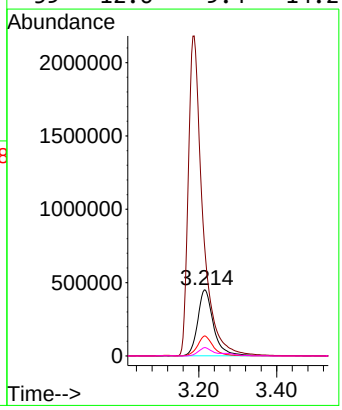


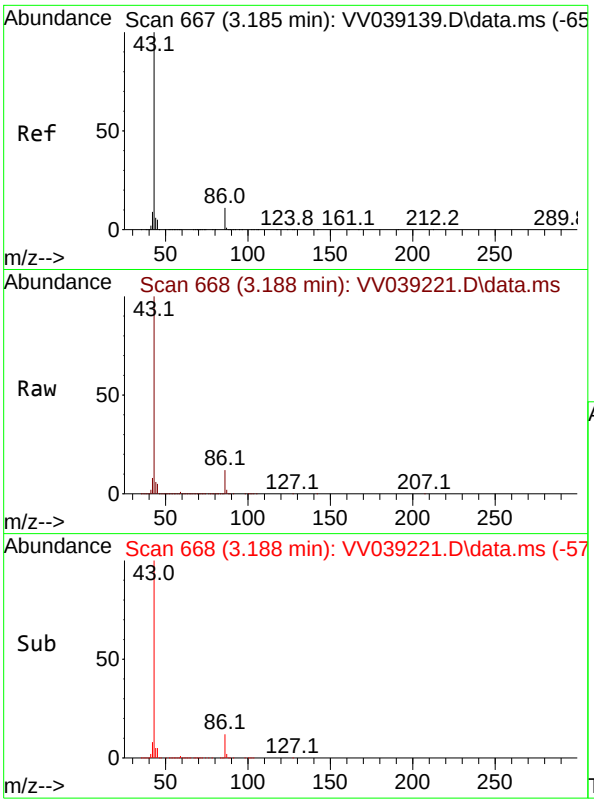


#22
Diisopropyl ether
Concen: 43.628 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 45 Resp: 1269043

Ion	Ratio	Lower	Upper
45	100		
43	172.3	130.9	196.3
87	30.2	21.1	31.7
59	12.6	9.4	14.2



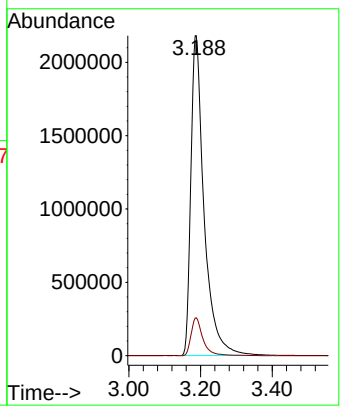


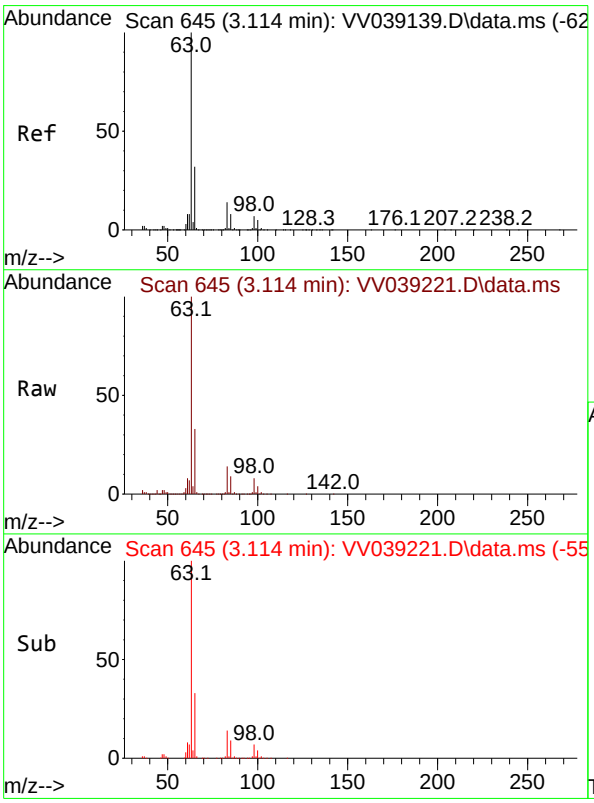
#23
Vinyl Acetate
Concen: 220.202 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 5603106

Ion	Ratio	Lower	Upper
43	100		
86	11.8	8.4	12.6

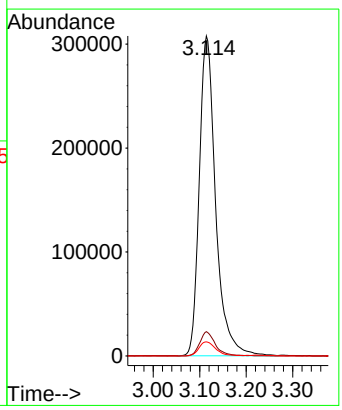


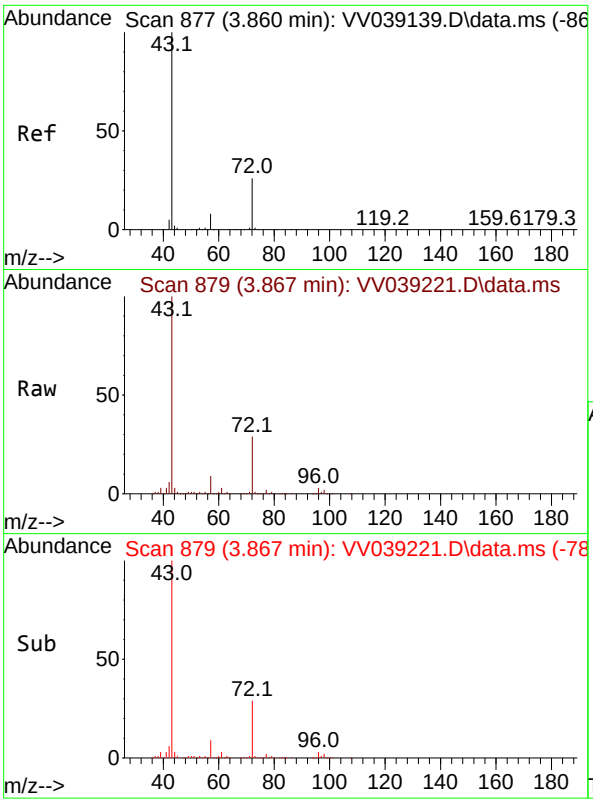


#24
1,1-Dichloroethane
Concen: 42.328 ug/l
RT: 3.114 min Scan# 645
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 63 Resp: 752929

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.4	10.2
100	4.4	2.2	6.6



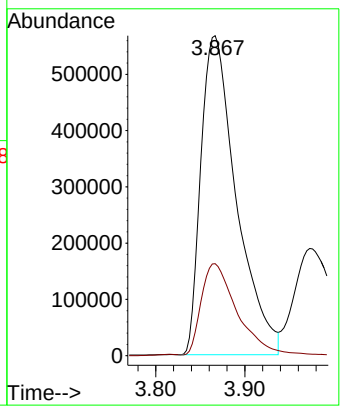


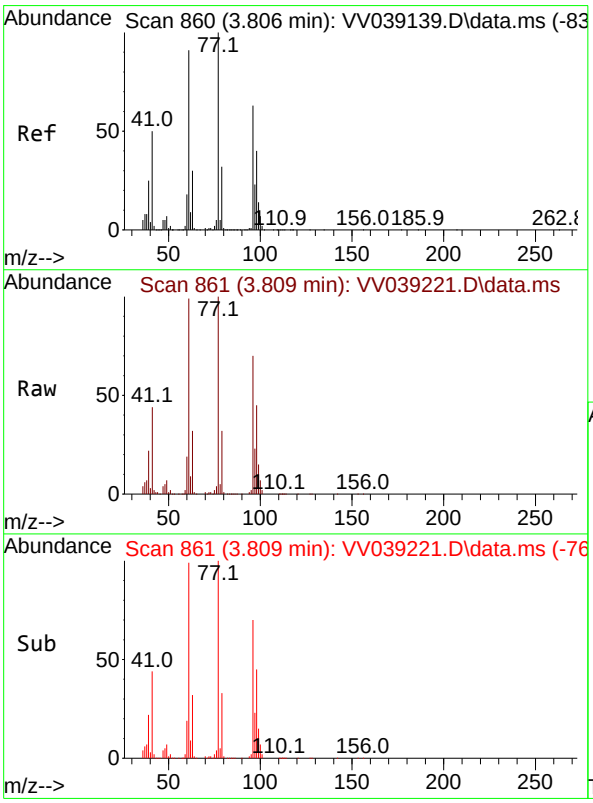
#25
2-Butanone
Concen: 240.588 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1573946

Ion	Ratio	Lower	Upper
43	100		
72	28.5	21.0	31.6

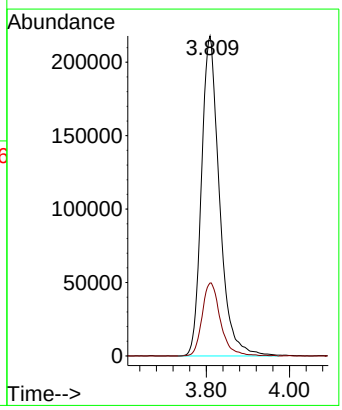


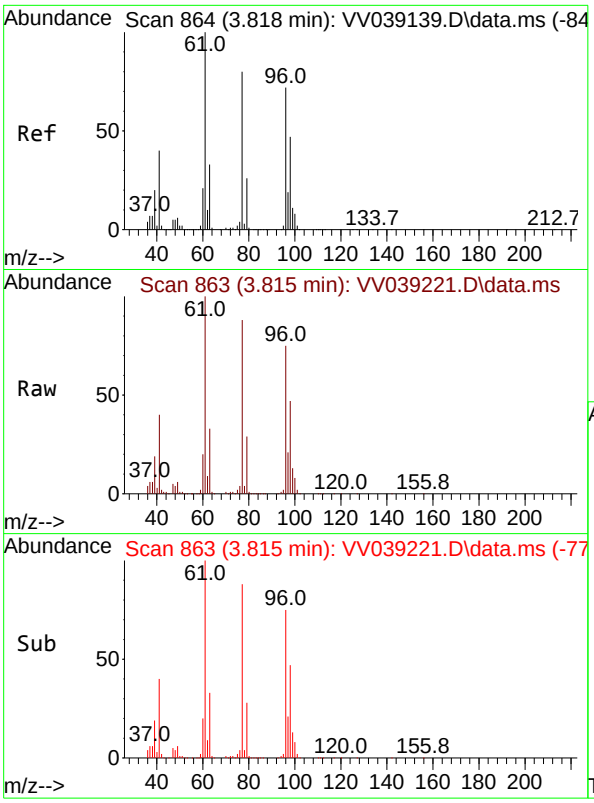


#26
2,2-Dichloropropane
Concen: 41.534 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 77 Resp: 655070

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.7



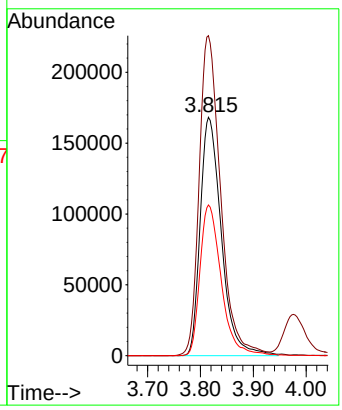


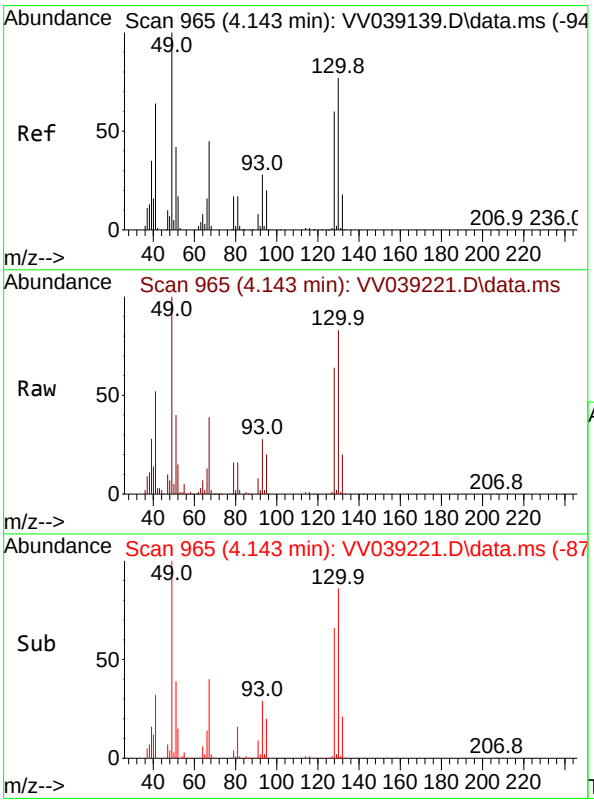
#27
cis-1,2-Dichloroethene
Concen: 46.691 ug/l
RT: 3.815 min Scan# 8
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 466569

Ion	Ratio	Lower	Upper
96	100		
61	136.8	0.0	286.4
98	63.8	0.0	126.6

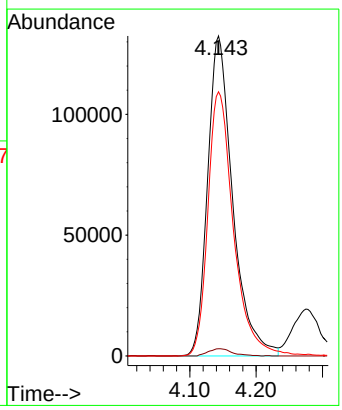


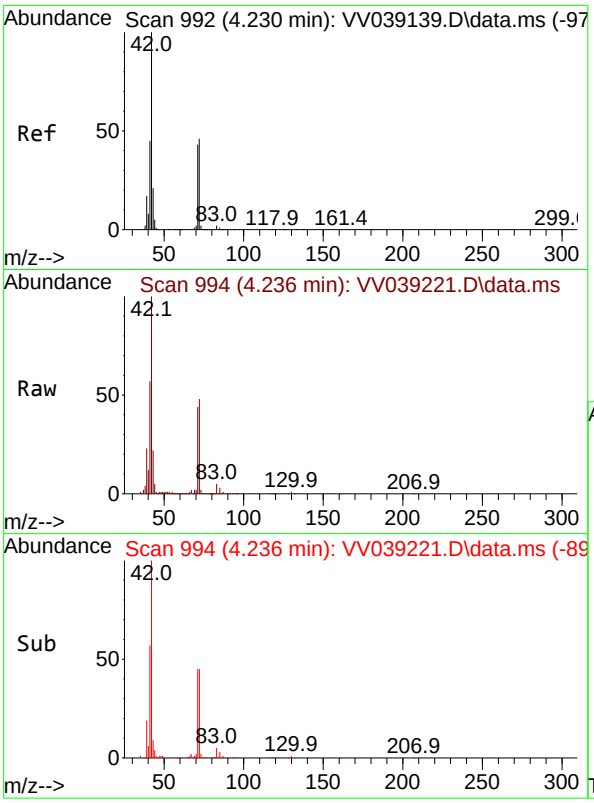


#28
Bromochloromethane
Concen: 44.343 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 49 Resp: 348213

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	84.3	60.2	90.2



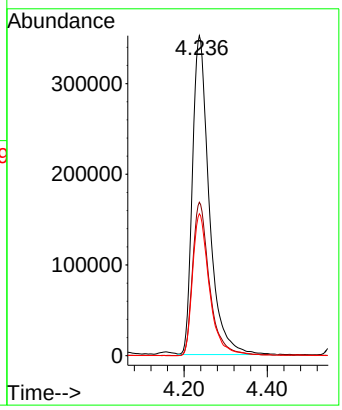


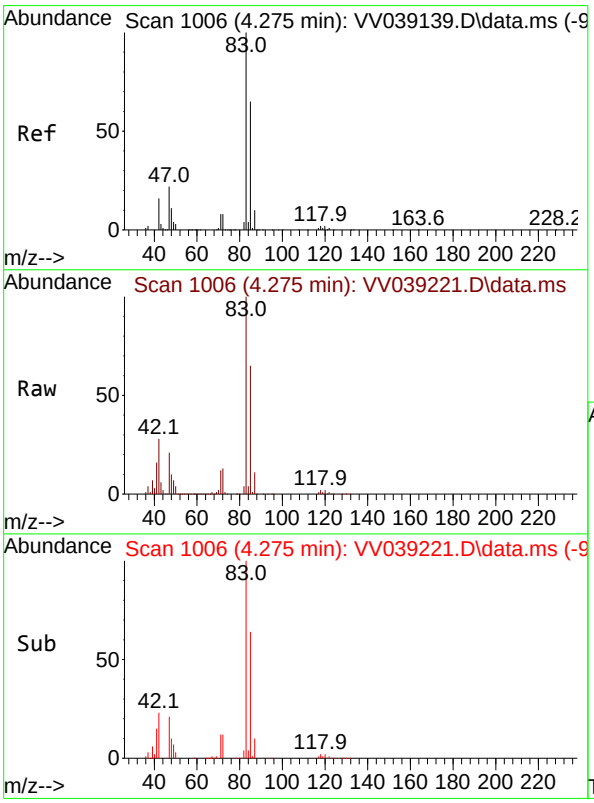
#29
Tetrahydrofuran
Concen: 240.344 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 984175

Ion	Ratio	Lower	Upper
42	100		
72	48.3	36.3	54.5
71	44.8	34.3	51.5

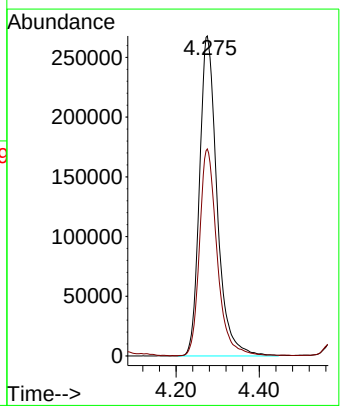


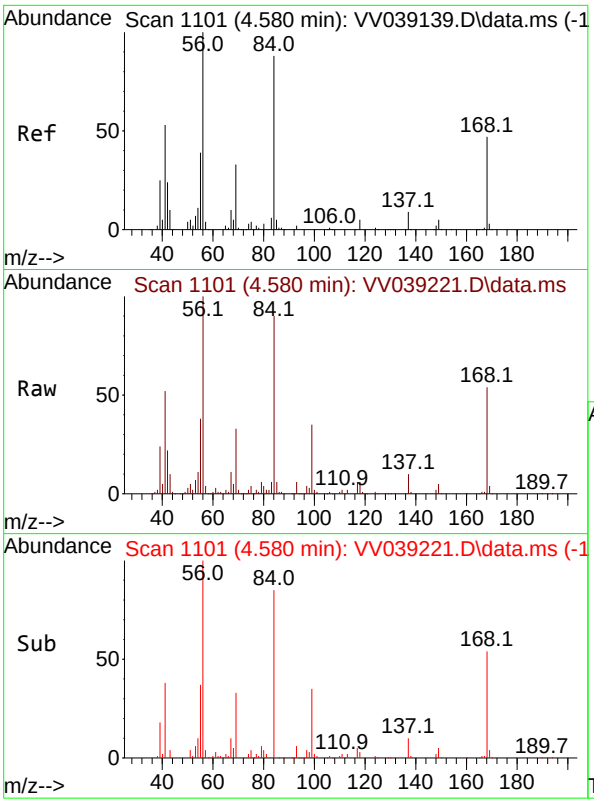


#30
Chloroform
Concen: 42.297 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 83 Resp: 785637

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.1	78.1



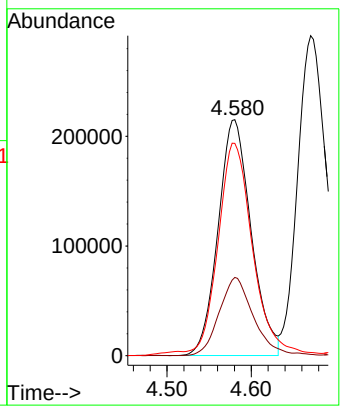


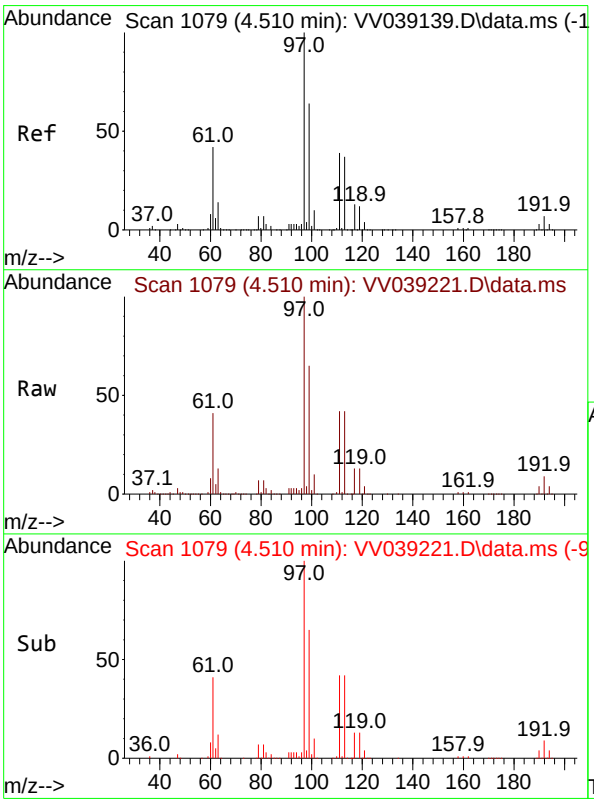
#31
Cyclohexane
Concen: 40.190 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 585623

Ion	Ratio	Lower	Upper
56	100		
69	33.1	26.2	39.2
84	88.2	70.3	105.5

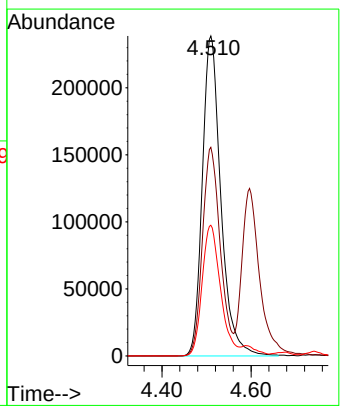


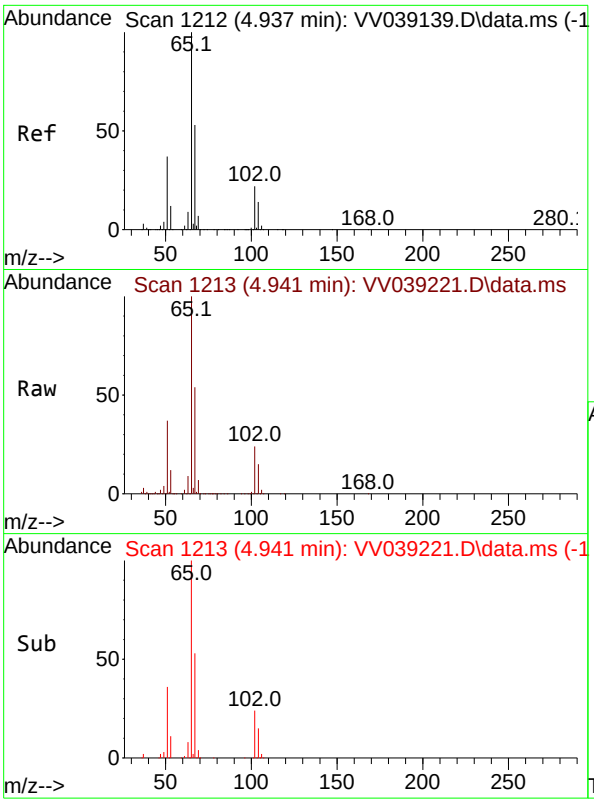


#32
1,1,1-Trichloroethane
Concen: 42.812 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 97 Resp: 688441

Ion	Ratio	Lower	Upper
97	100		
99	62.4	49.6	74.4
61	40.9	34.5	51.7



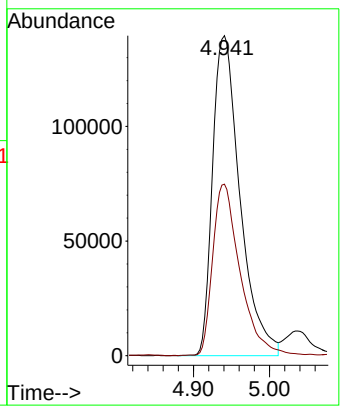


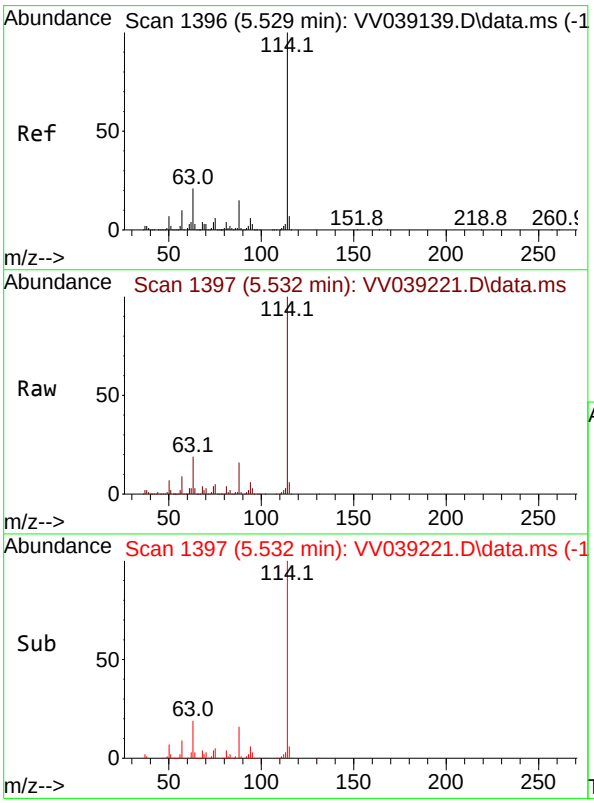
#33
1,2-Dichloroethane-d4
Concen: 42.808 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 349728

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	107.0

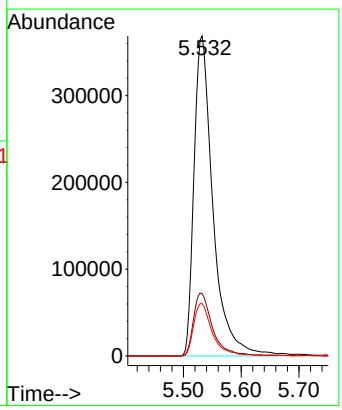


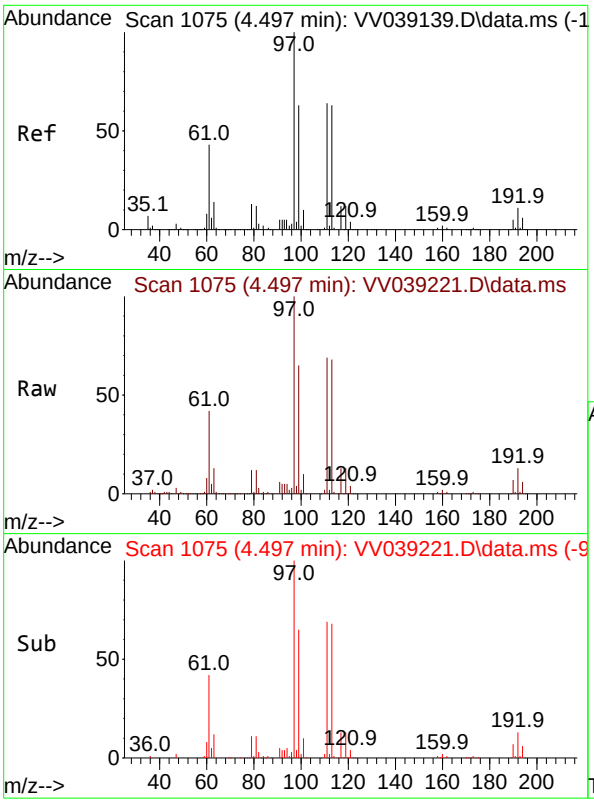


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:114 Resp: 842301

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	42.6
88	16.4	0.0	30.8



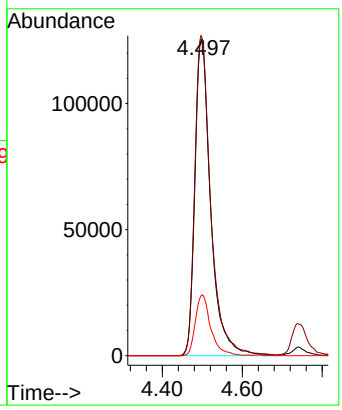


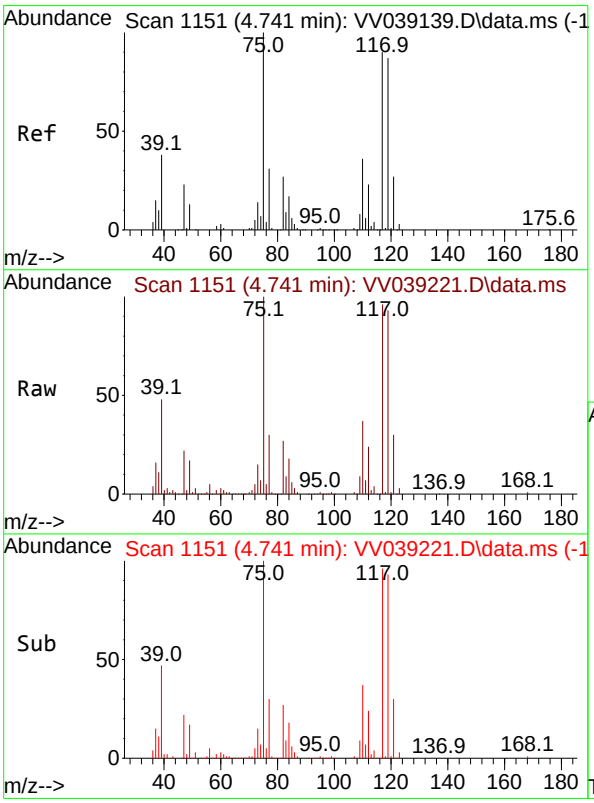
#35
Dibromofluoromethane
Concen: 51.100 ug/l
RT: 4.497 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 346022

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.4	123.6
192	18.7	13.8	20.8

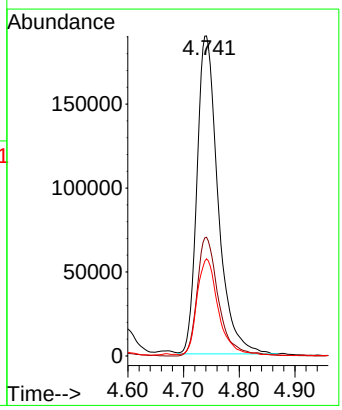


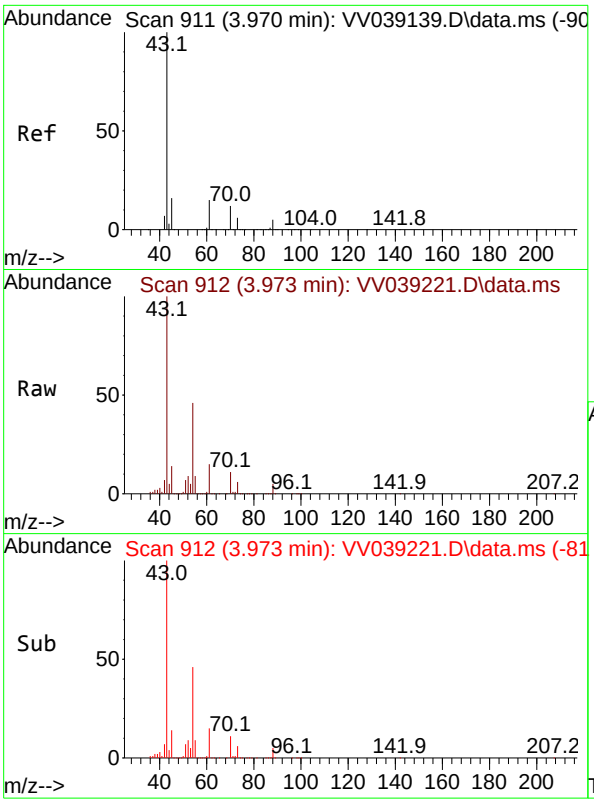


#36
1,1-Dichloropropene
Concen: 48.595 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 497503

Ion	Ratio	Lower	Upper
75	100		
110	37.5	18.1	54.1
77	29.9	24.8	37.2



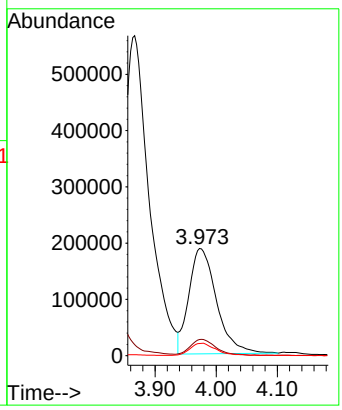


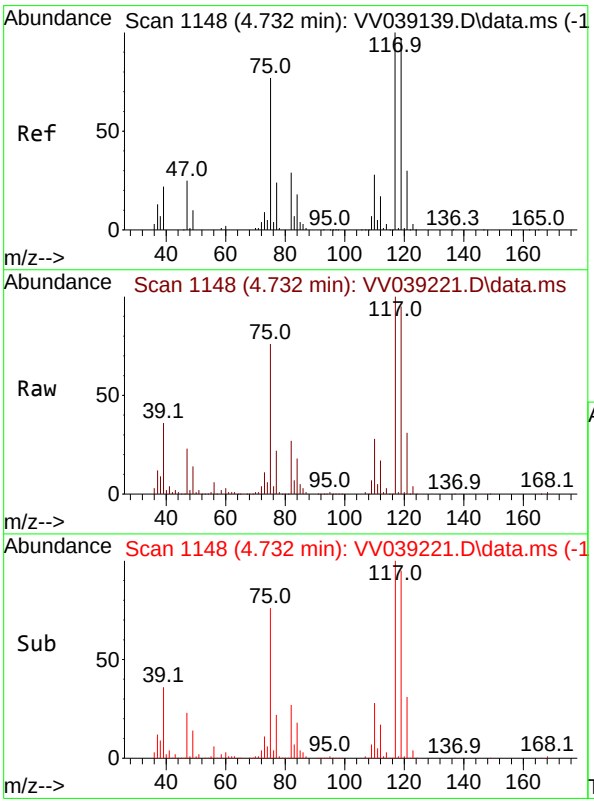
#37
Ethyl Acetate
Concen: 47.309 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 587710

Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.3	15.5
70	11.0	8.0	12.0

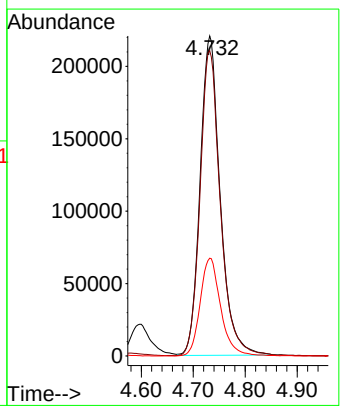


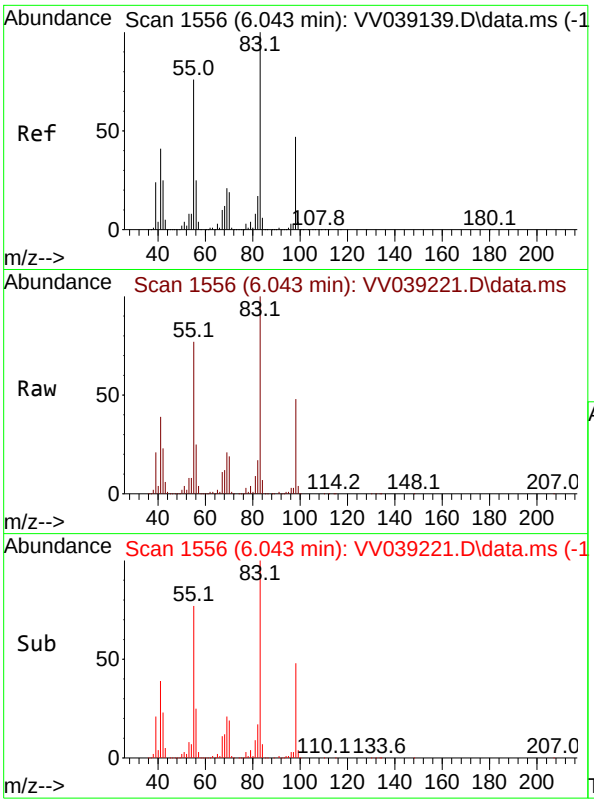


#38
Carbon Tetrachloride
Concen: 47.329 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:117 Resp: 592185

Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.2	115.8
121	30.6	24.2	36.2



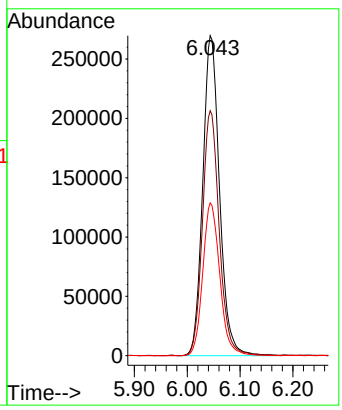


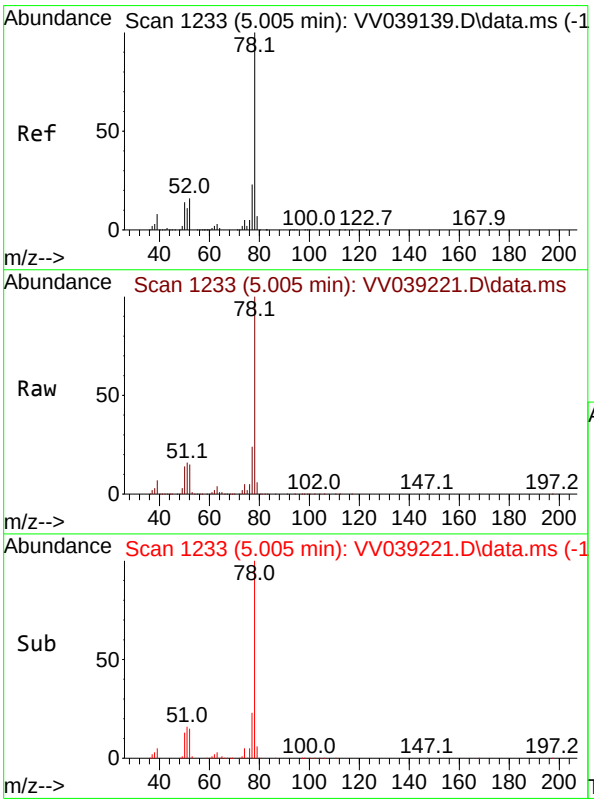
#39
Methylcyclohexane
Concen: 48.172 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 595570

Ion	Ratio	Lower	Upper
83	100		
55	76.5	60.5	90.7
98	47.8	37.8	56.6

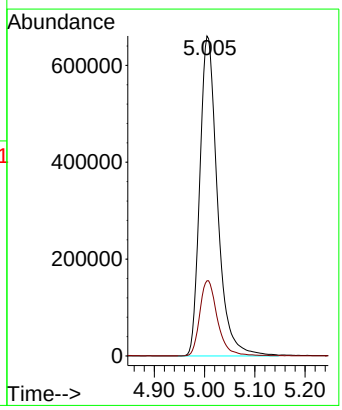


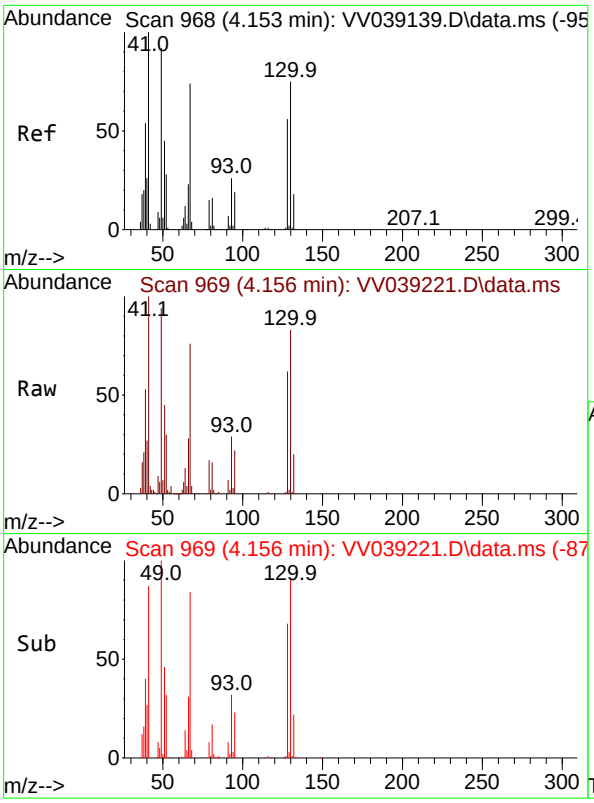


#40
Benzene
Concen: 48.334 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 78 Resp: 1611342

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1



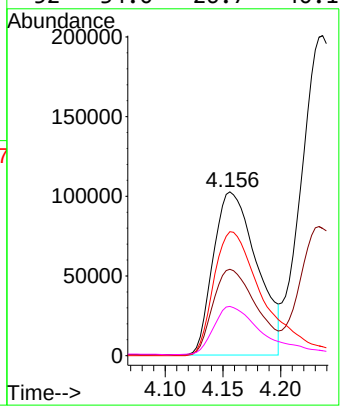


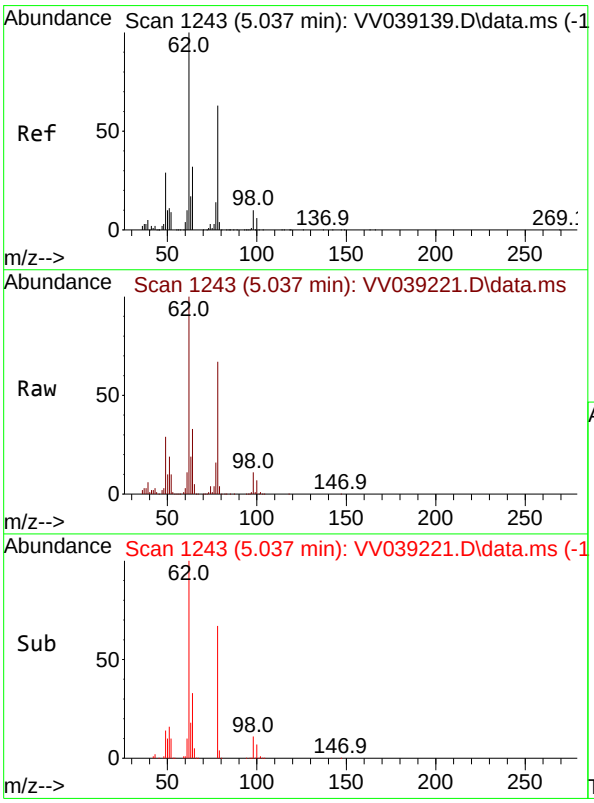
#41
Methacrylonitrile
Concen: 48.162 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 270101

Ion	Ratio	Lower	Upper
41	100		
39	52.4	42.2	63.2
67	87.5	67.9	101.9
52	34.0	26.7	40.1

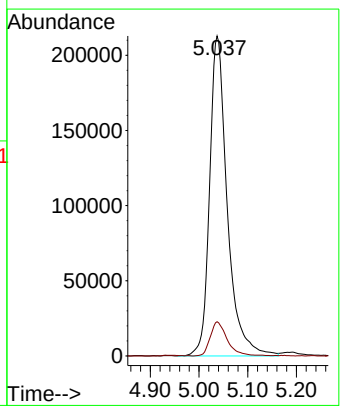


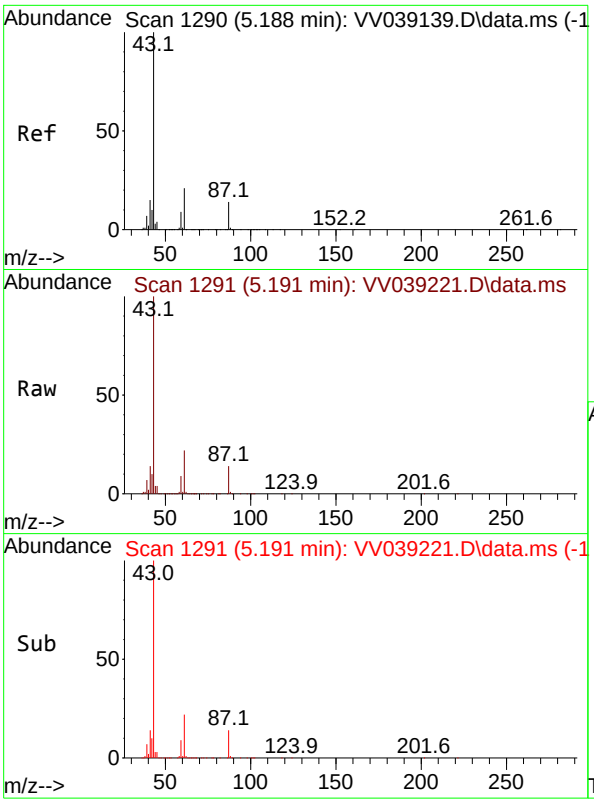


#42
1,2-Dichloroethane
Concen: 45.932 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 62 Resp: 536537

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	19.2



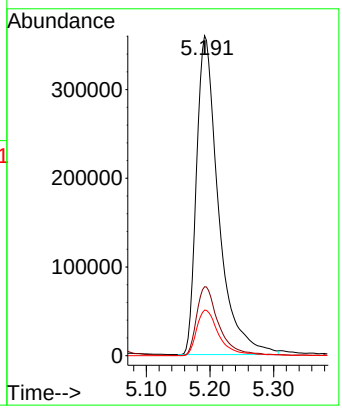


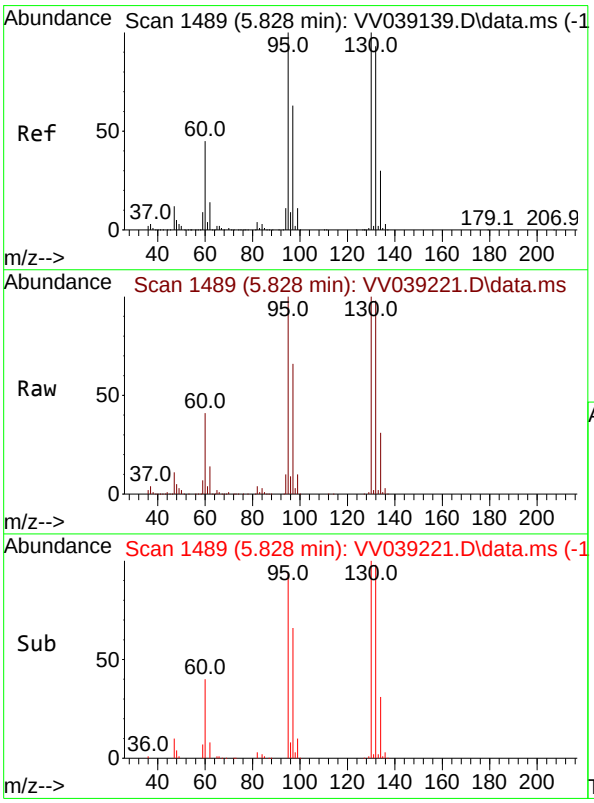
#43
Isopropyl Acetate
Concen: 50.981 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 863524

Ion	Ratio	Lower	Upper
43	100		
61	21.5	15.9	23.9
87	14.8	11.0	16.6

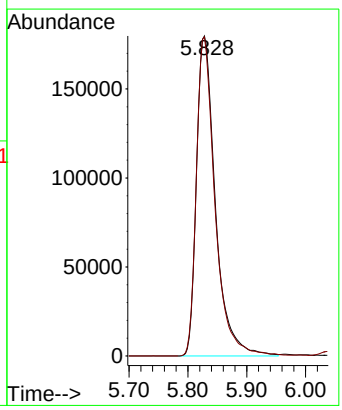


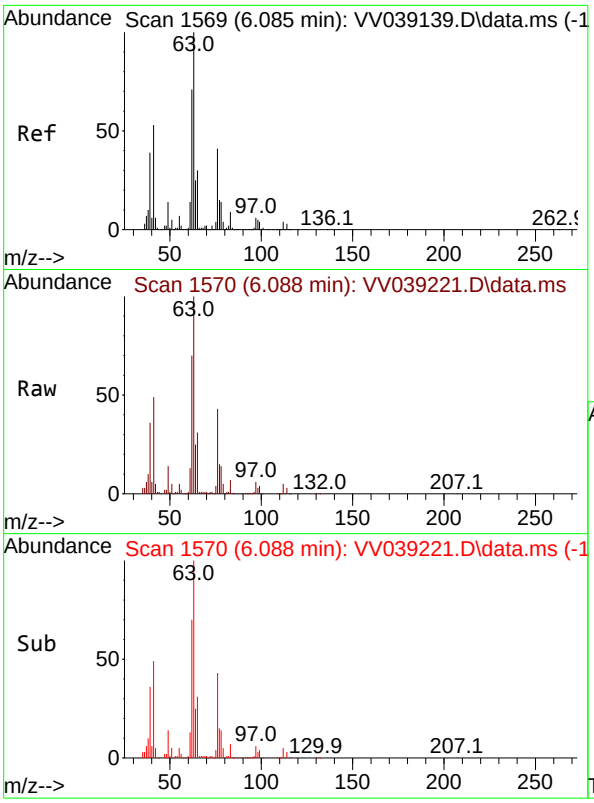


#44
Trichloroethene
Concen: 52.139 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:130 Resp: 401095

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	199.2



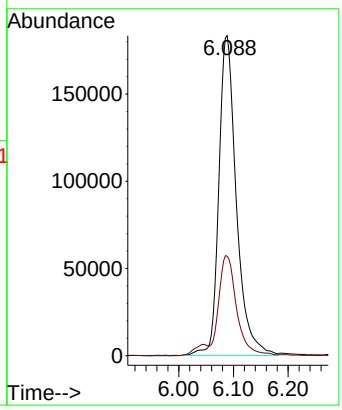


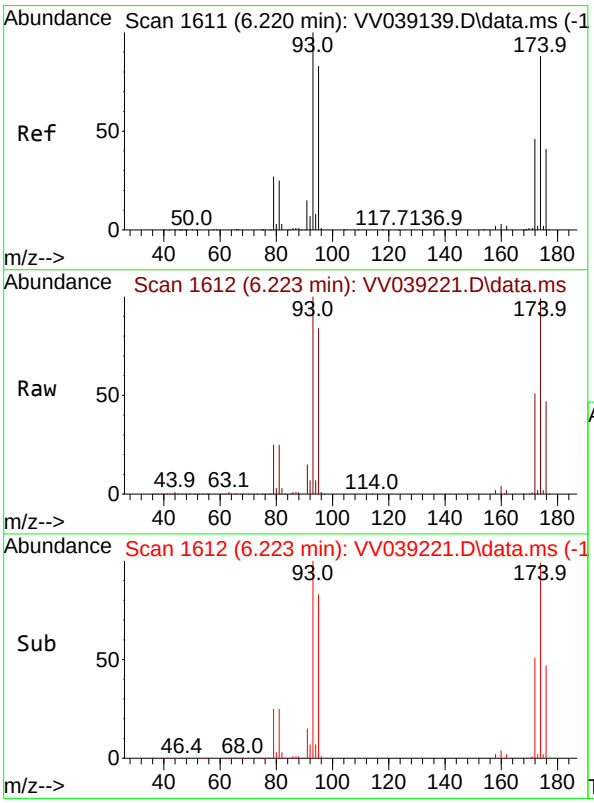
#45
1,2-Dichloropropane
Concen: 49.295 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 408473

Ion	Ratio	Lower	Upper
63	100		
65	31.1	23.7	35.5

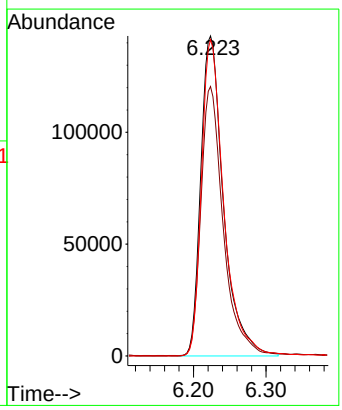


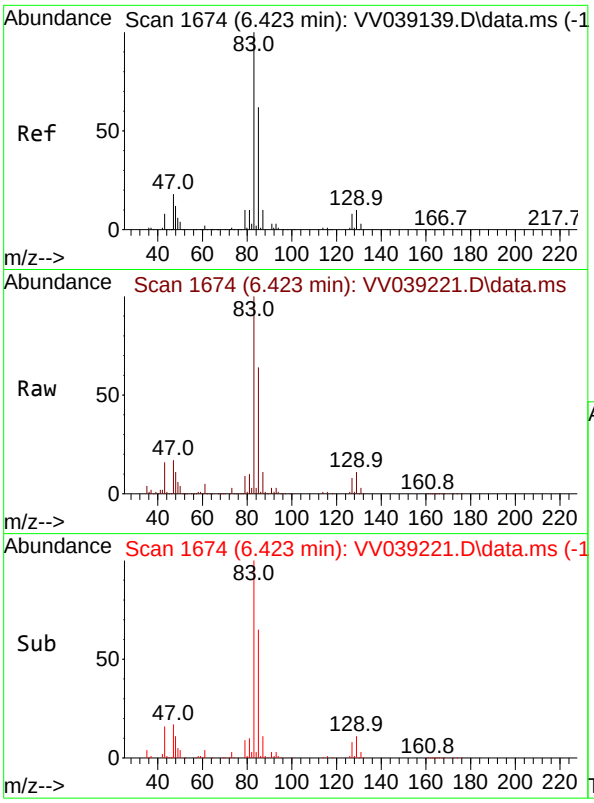


#46
Dibromomethane
Concen: 49.060 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 93 Resp: 311150

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	97.5	69.0	103.4



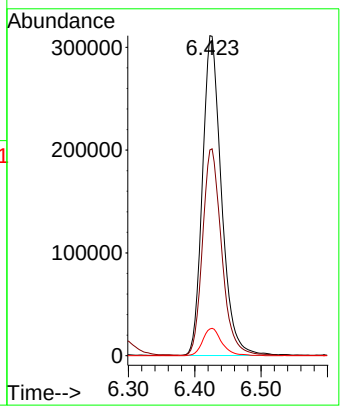


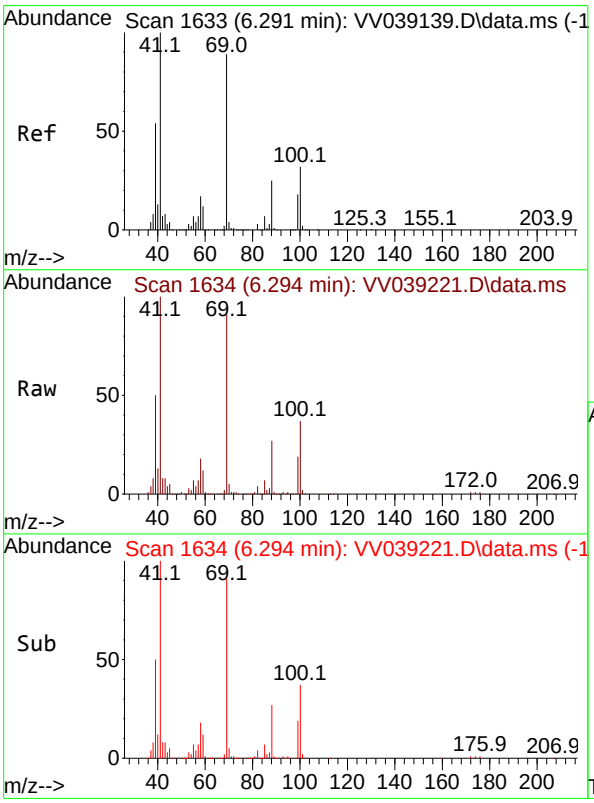
#47
Bromodichloromethane
Concen: 47.336 ug/l
RT: 6.423 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 620639

Ion	Ratio	Lower	Upper
83	100		
85	64.2	49.7	74.5
127	8.4	6.6	9.8

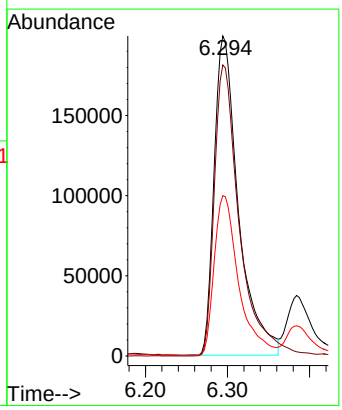


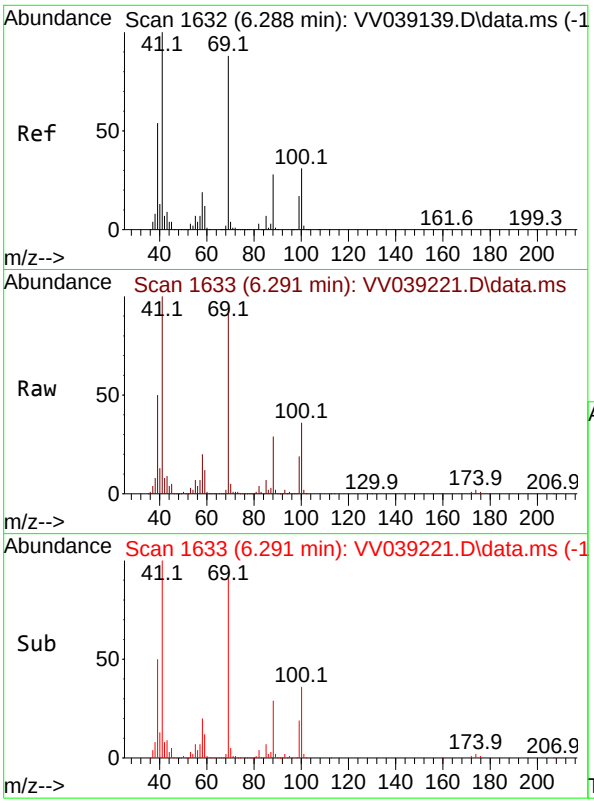


#48
Methyl methacrylate
Concen: 53.435 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 41 Resp: 410277

Ion	Ratio	Lower	Upper
41	100		
69	94.3	72.4	108.6
39	50.3	42.5	63.7



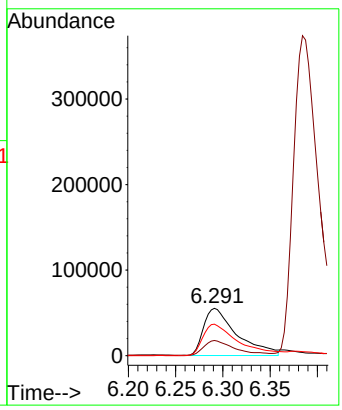


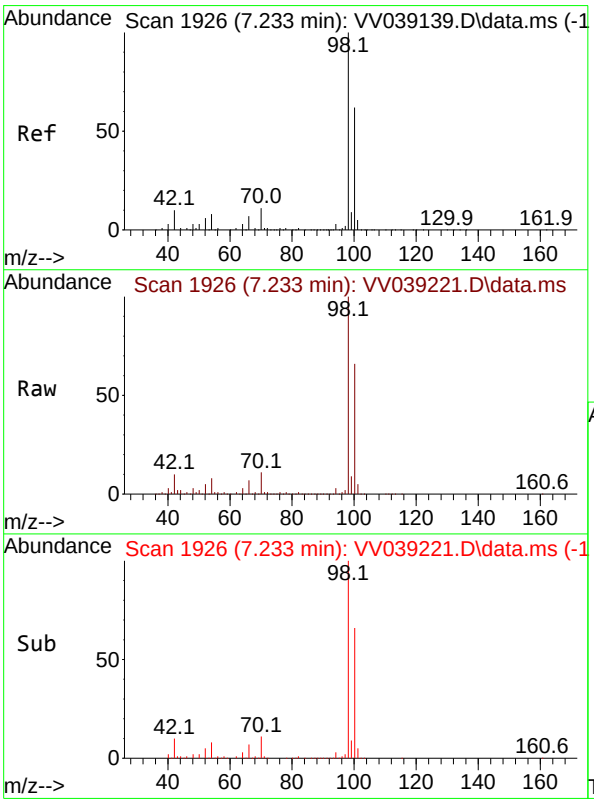
#49
1,4-Dioxane
Concen: 1093.922 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 135545

Ion	Ratio	Lower	Upper
88	100		
43	29.1	25.1	37.7
58	71.0	53.6	80.4

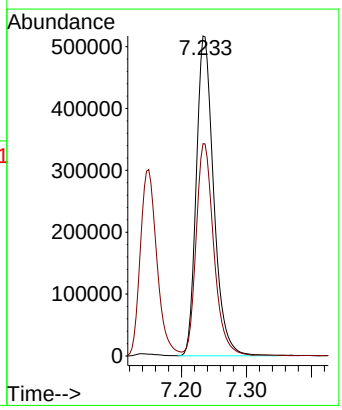


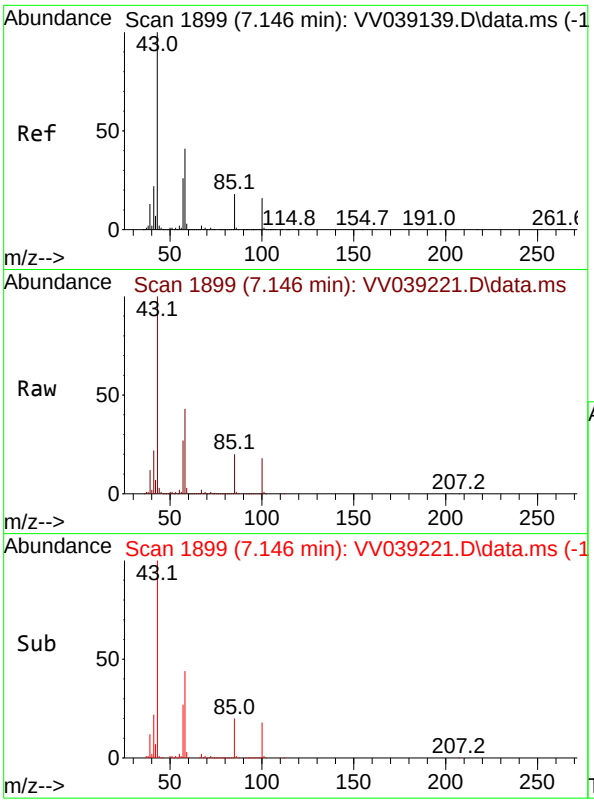


#50
Toluene-d8
Concen: 48.458 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 98 Resp: 963722

Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.2	78.2



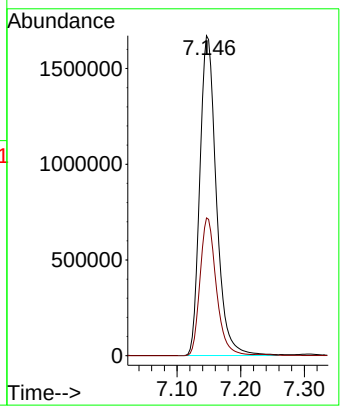


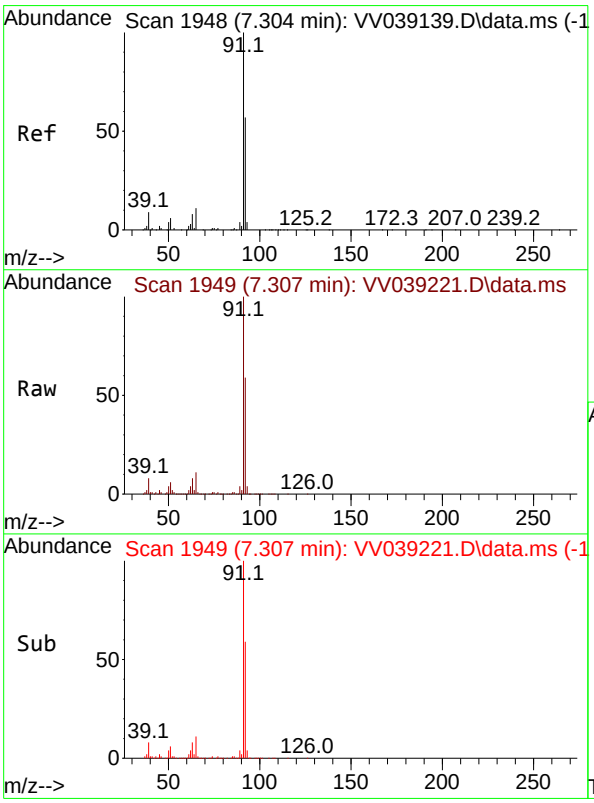
#51
4-Methyl-2-Pentanone
Concen: 271.028 ug/l
RT: 7.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 3020119

Ion	Ratio	Lower	Upper
43	100		
58	42.4	32.3	48.5

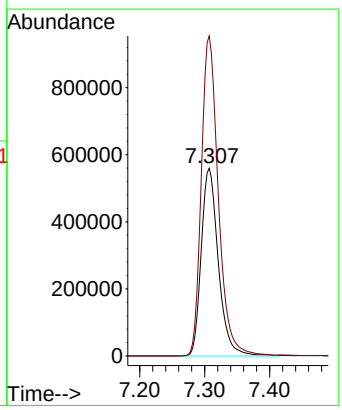


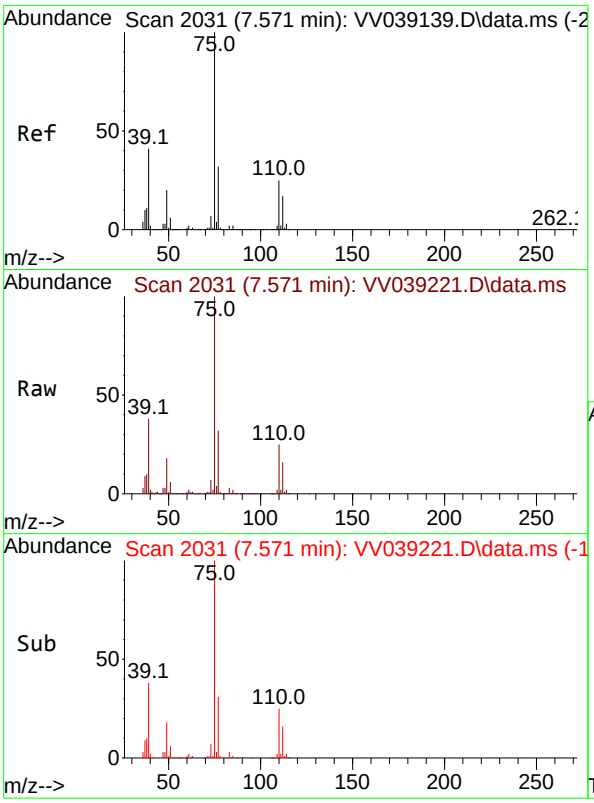


#52
Toluene
Concen: 53.051 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 92 Resp: 1025430

Ion	Ratio	Lower	Upper
92	100		
91	170.5	139.2	208.8



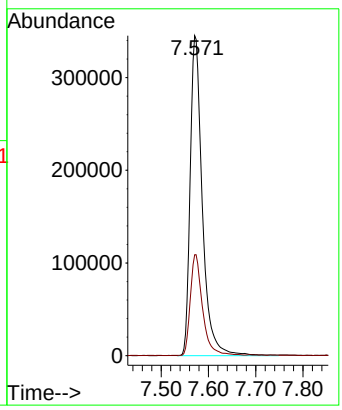


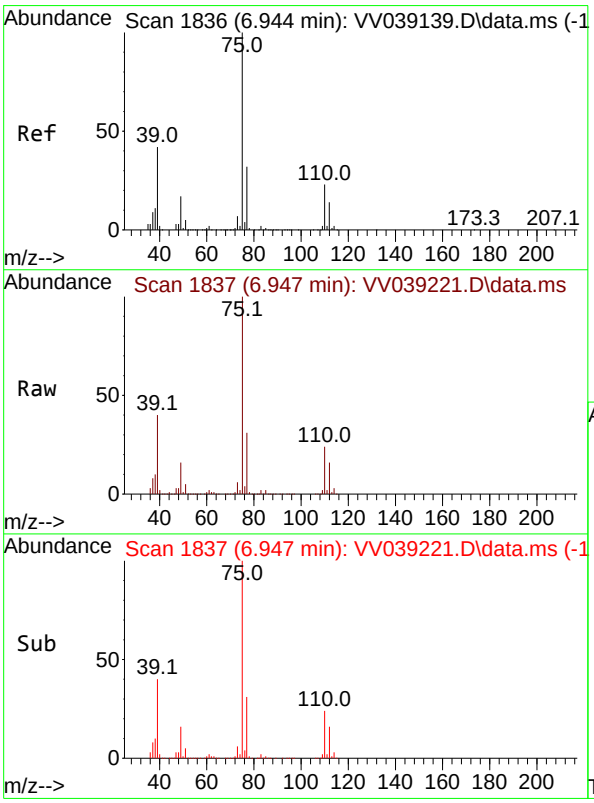
#53
t-1,3-Dichloropropene
Concen: 53.914 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 616048

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.9	38.9

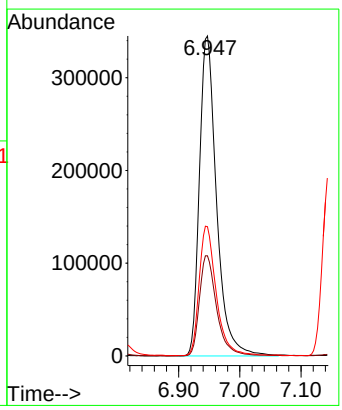


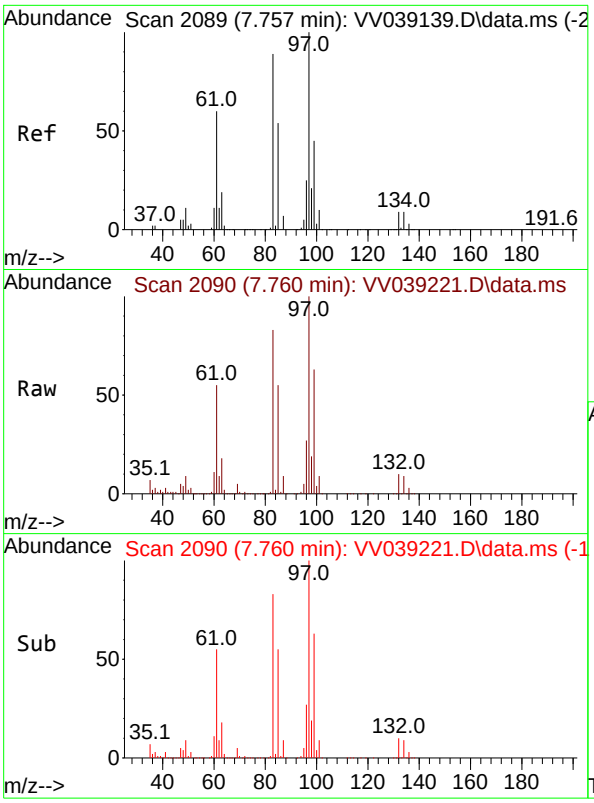


#54
cis-1,3-Dichloropropene
Concen: 53.126 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 670138

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.5	38.3
39	40.3	33.8	50.6



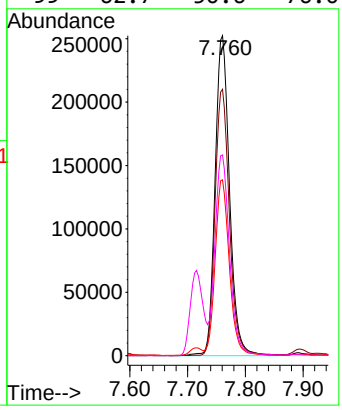


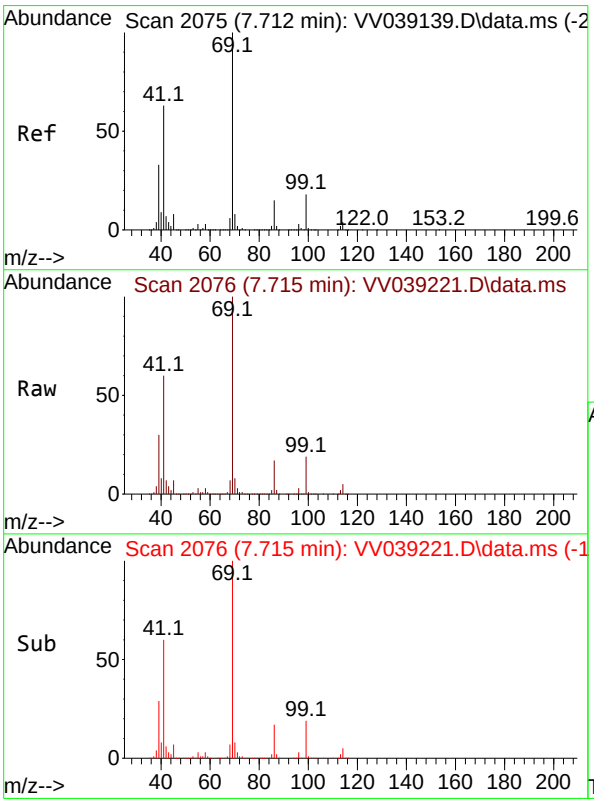
#55
1,1,2-Trichloroethane
Concen: 50.719 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 439583

Ion	Ratio	Lower	Upper
97	100		
83	83.1	71.1	106.7
85	54.9	44.6	67.0
99	62.7	50.6	76.0

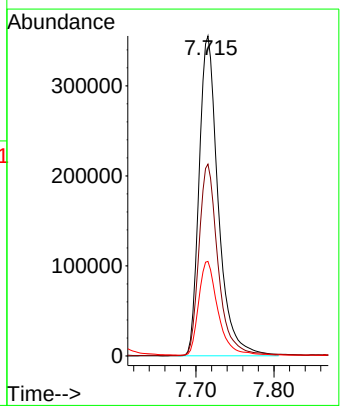


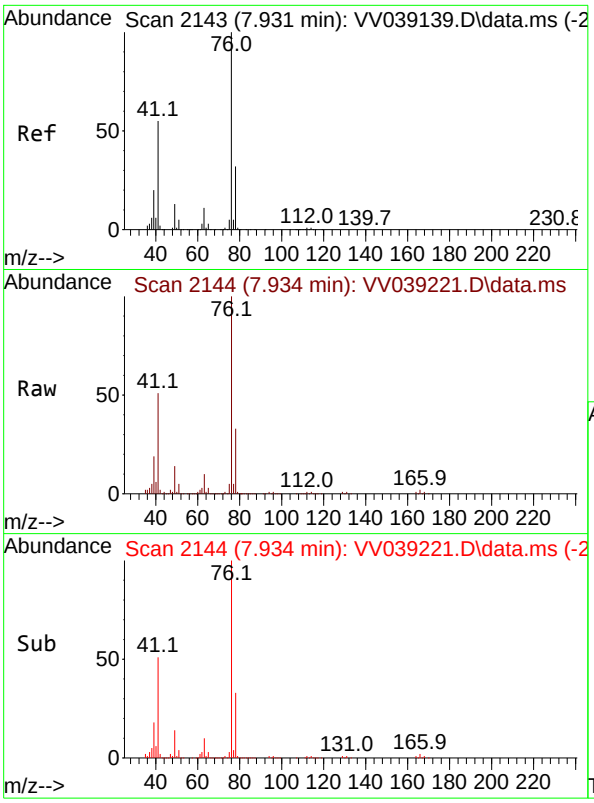


#56
Ethyl methacrylate
Concen: 58.788 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 69 Resp: 605076

Ion	Ratio	Lower	Upper
69	100		
41	60.1	50.7	76.1
39	29.8	26.0	39.0



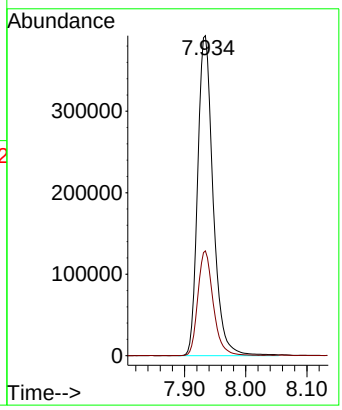


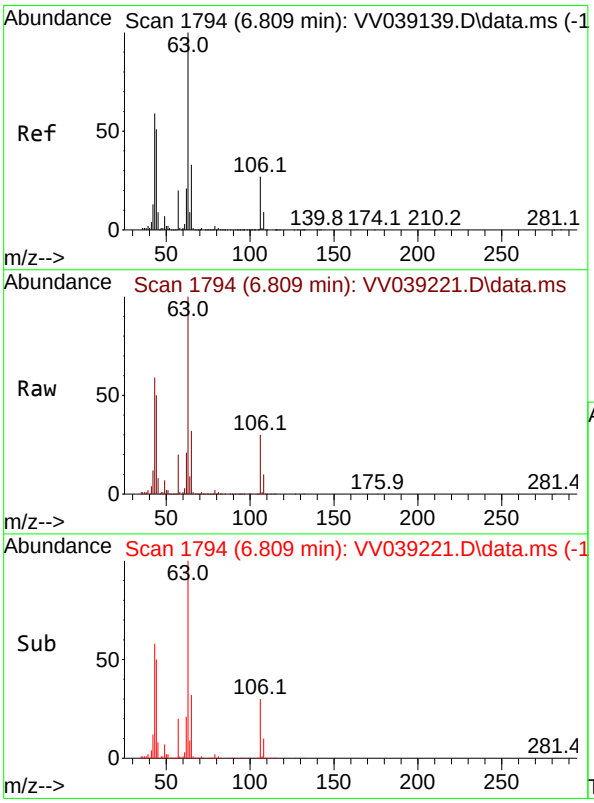
#57
1,3-Dichloropropane
Concen: 50.365 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 688890

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.1	39.1

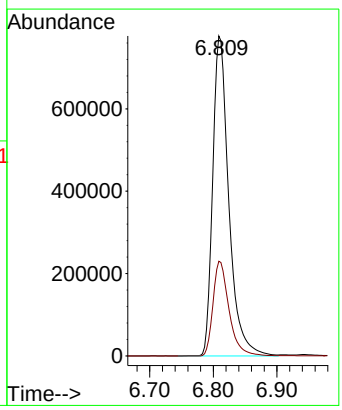


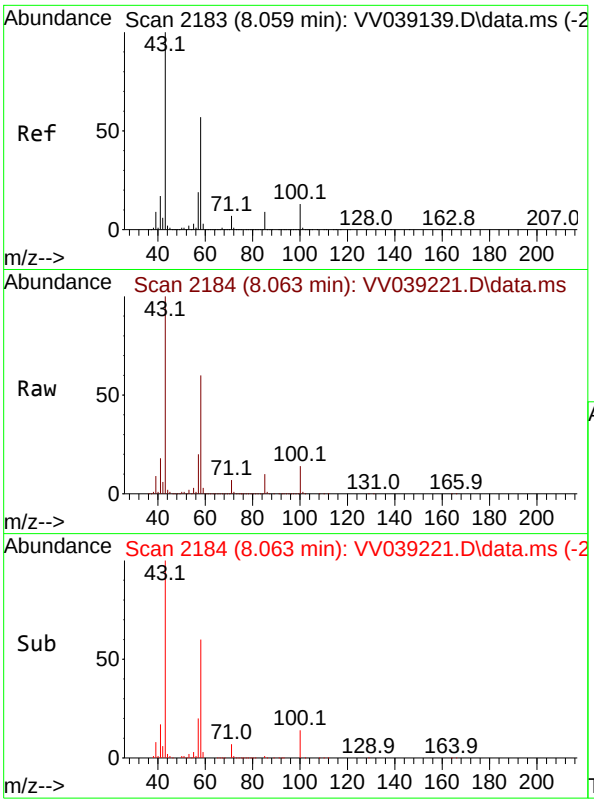


#58
2-Chloroethyl Vinyl ether
Concen: 235.318 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 63 Resp: 1364182

Ion	Ratio	Lower	Upper
63	100		
106	29.5	22.1	33.1



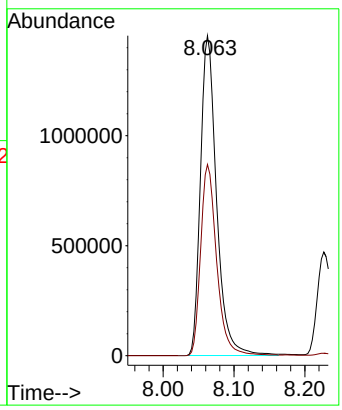


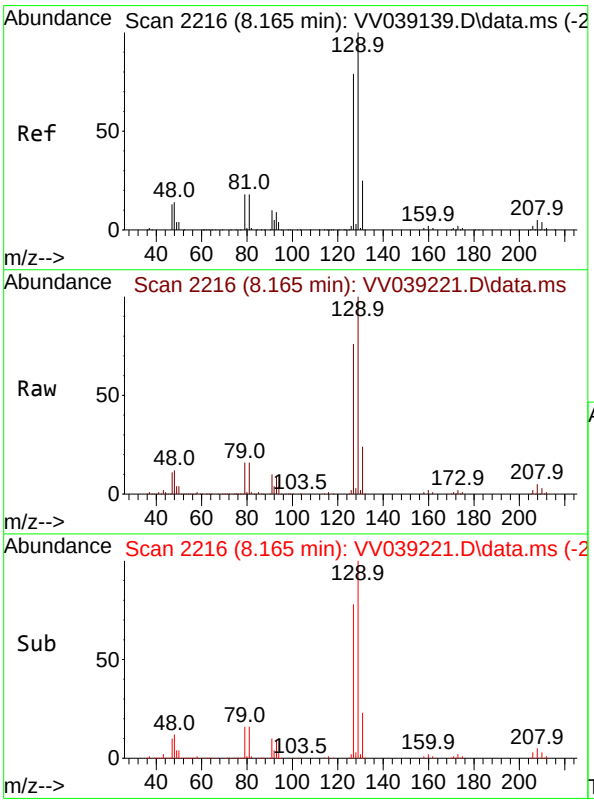
#59
2-Hexanone
Concen: 255.225 ug/l
RT: 8.063 min Scan# 21
Delta R.T. 0.004 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2296121

Ion	Ratio	Lower	Upper
43	100		
58	59.6	28.3	85.0

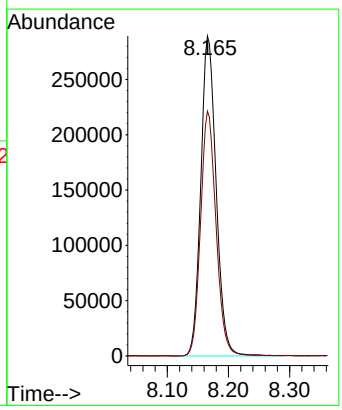


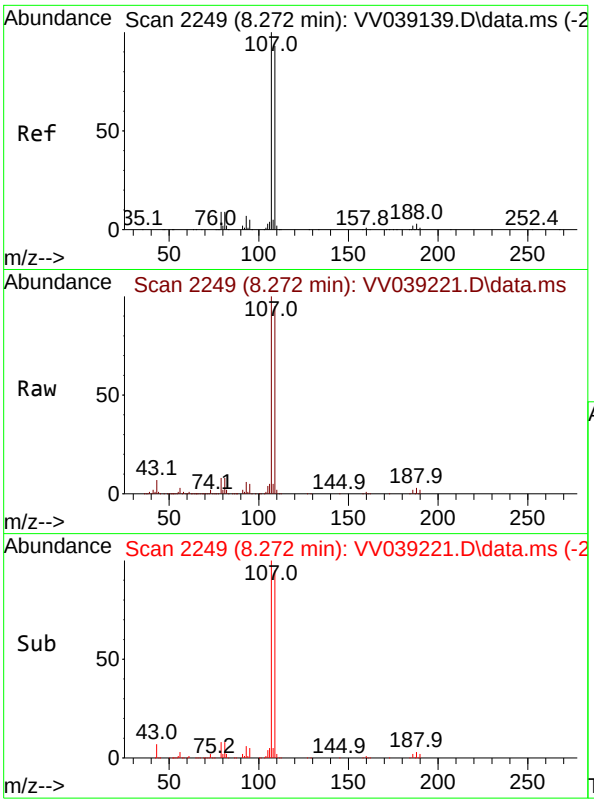


#60
Dibromochloromethane
Concen: 51.151 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:129 Resp: 505143

Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.3	117.9



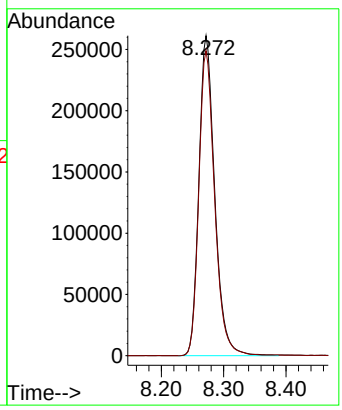


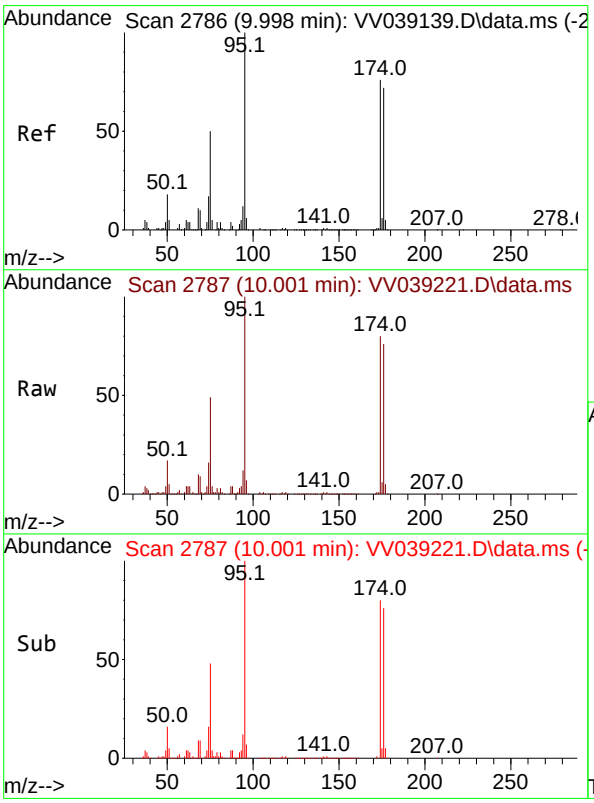
#61
1,2-Dibromoethane
Concen: 52.094 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 461742

Ion	Ratio	Lower	Upper
107	100		
109	95.1	74.6	112.0

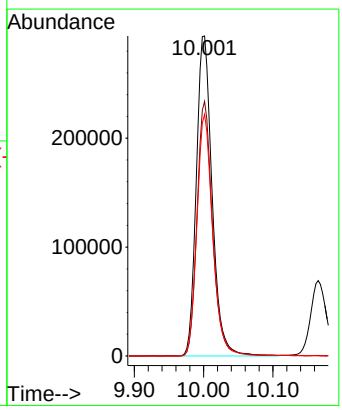


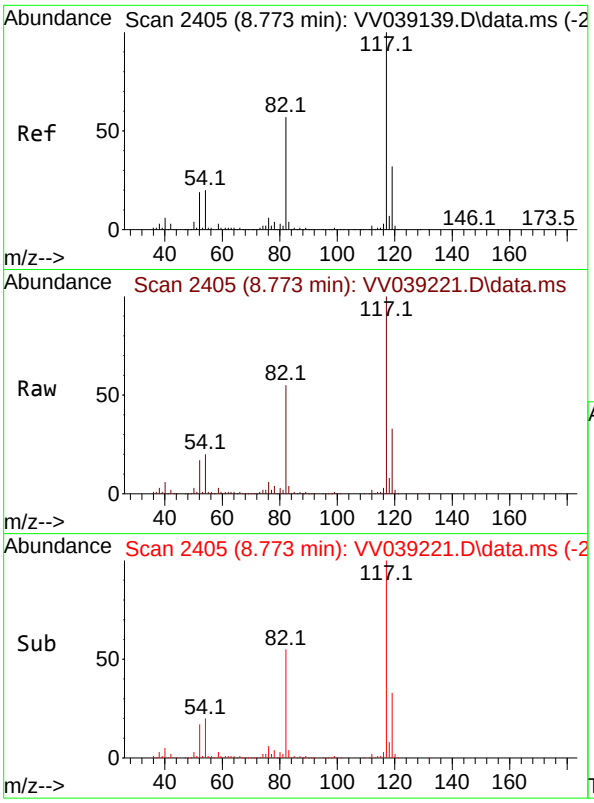


#62
4-Bromofluorobenzene
Concen: 57.013 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 95 Resp: 466775

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	150.4
176	75.0	0.0	144.2



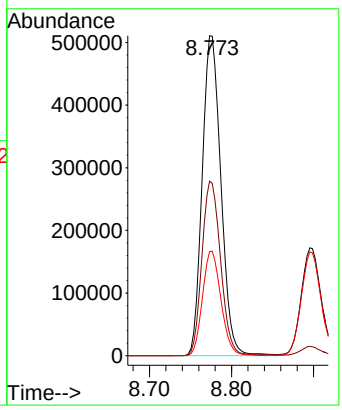


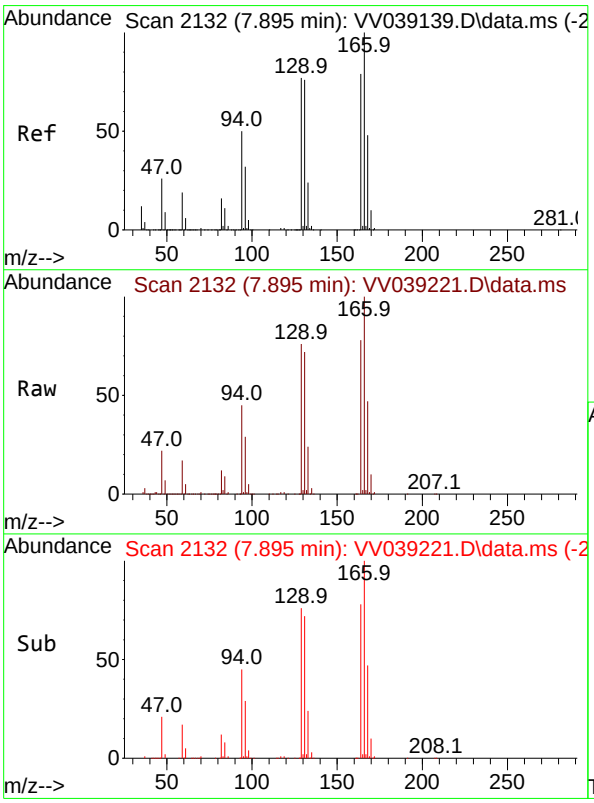
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 811375

Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.4	68.2
119	32.5	25.6	38.4

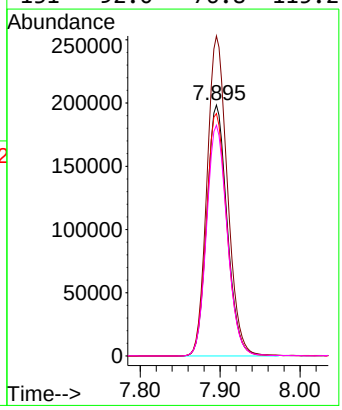


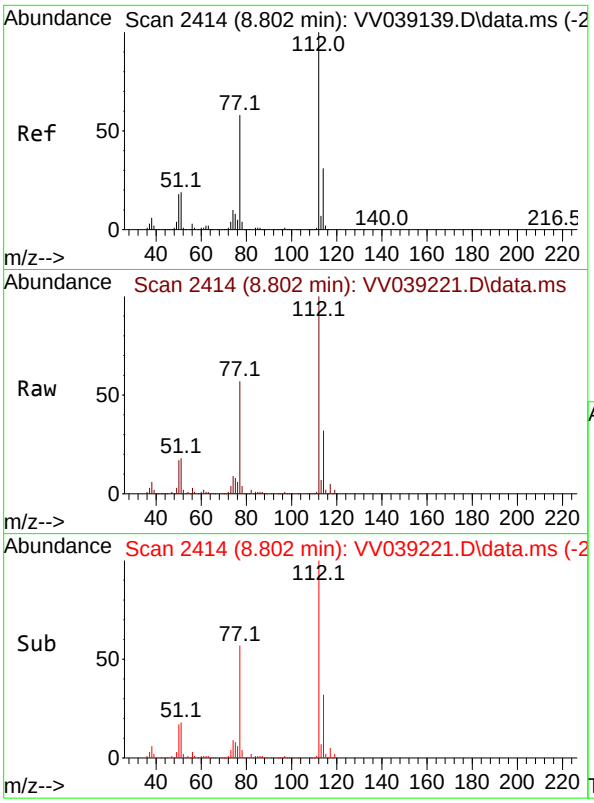


#64
Tetrachloroethene
Concen: 51.636 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:164 Resp: 350917

Ion	Ratio	Lower	Upper
164	100		
166	127.5	101.6	152.4
129	96.6	78.5	117.7
131	92.0	76.8	115.2



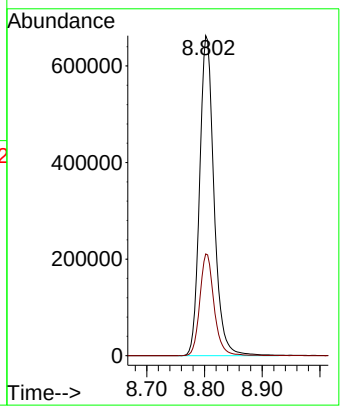


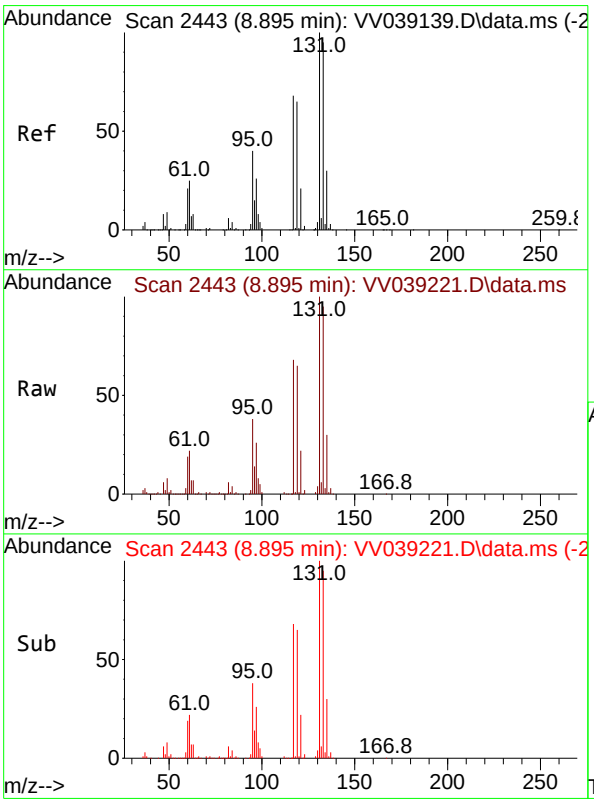
#65
Chlorobenzene
Concen: 50.604 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 1143668

Ion	Ratio	Lower	Upper
112	100		
114	31.8	24.6	37.0

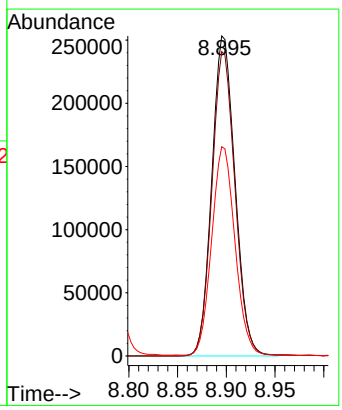


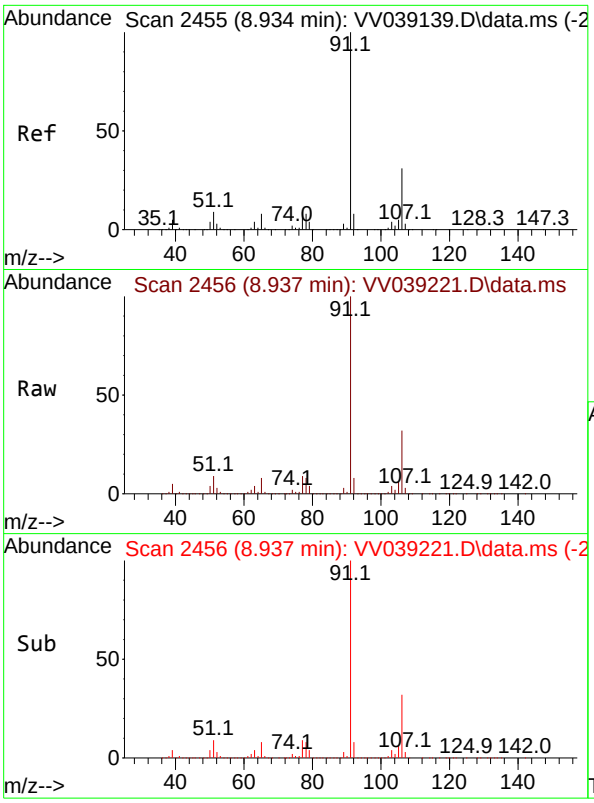


#66
1,1,1,2-Tetrachloroethane
Concen: 51.392 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:131 Resp: 419675

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.8
119	65.6	33.3	99.8



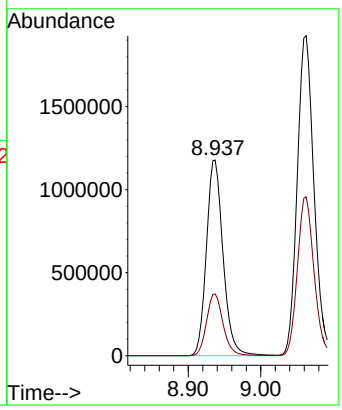


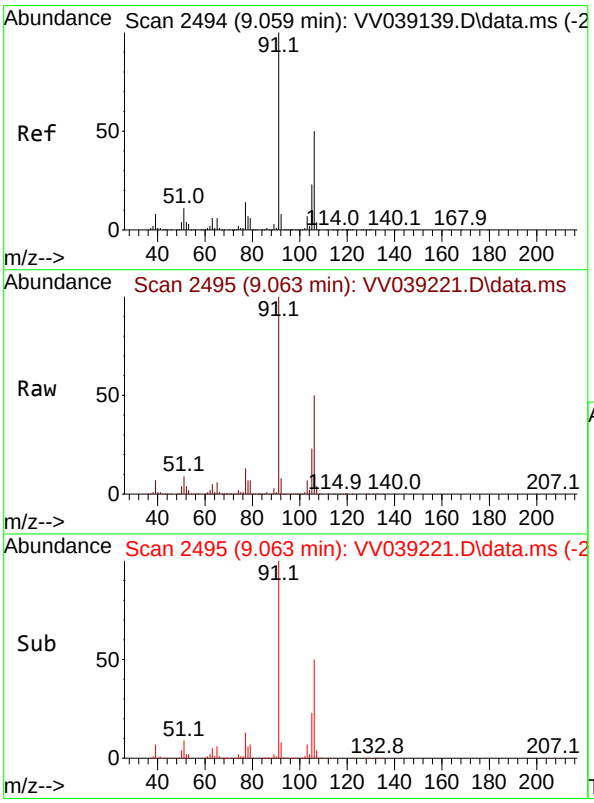
#67
Ethyl Benzene
Concen: 54.927 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1879090

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	37.0

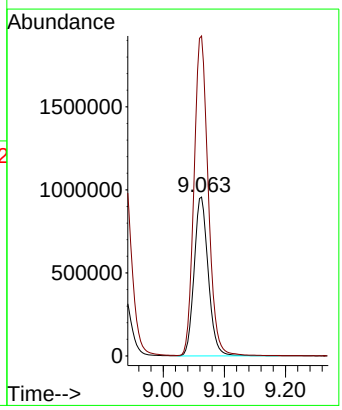


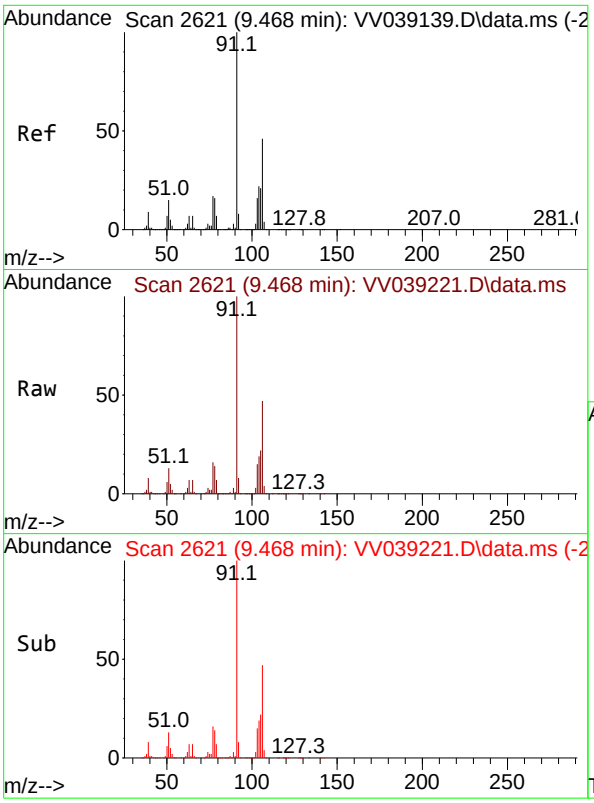


#68
m/p-Xylenes
Concen: 115.793 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:106 Resp: 1528923

Ion	Ratio	Lower	Upper
106	100		
91	202.6	162.5	243.7



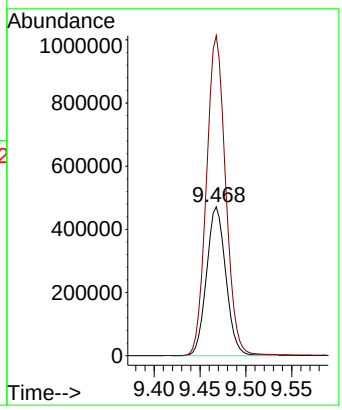


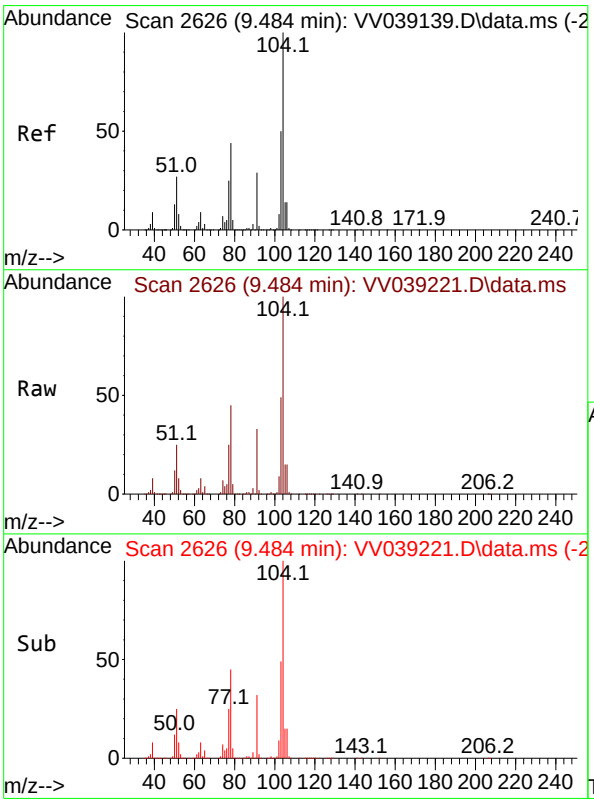
#69
o-Xylene
Concen: 59.062 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 690511

Ion	Ratio	Lower	Upper
106	100		
91	213.6	109.1	327.3

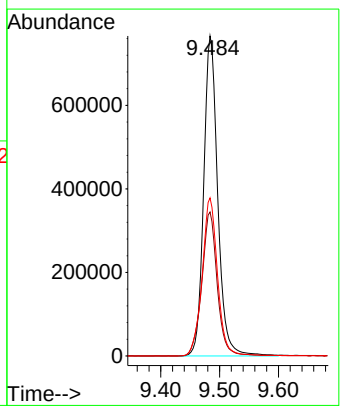


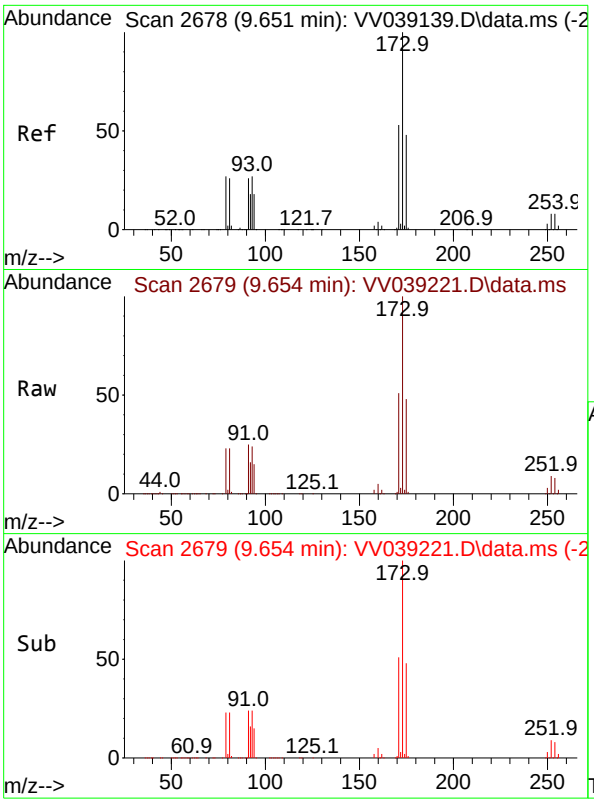


#70
Styrene
Concen: 51.432 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:104 Resp: 1274646

Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.8	59.6
103	54.0	43.4	65.2



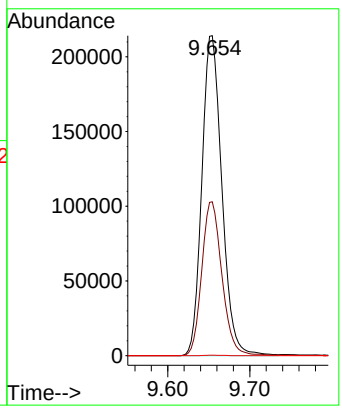


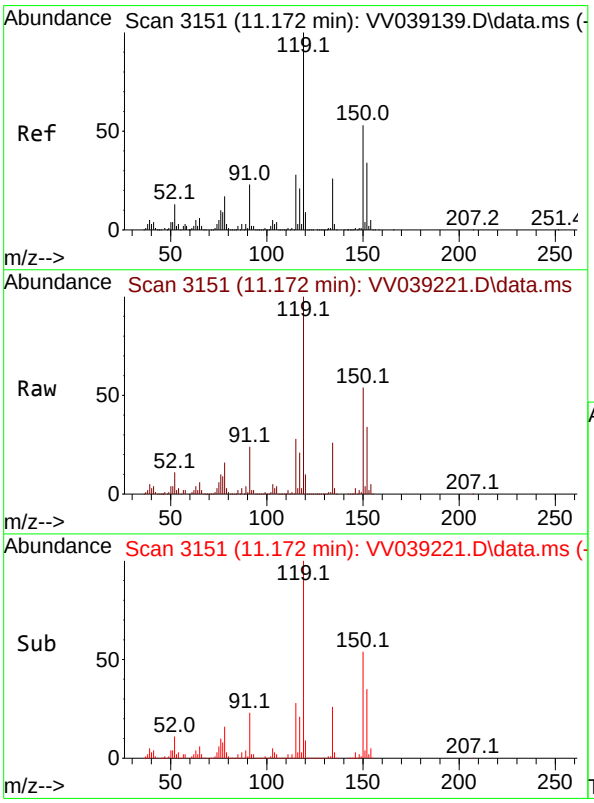
#71
Bromoform
Concen: 56.878 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 362804

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.9	71.7
254	0.1	0.1	0.1#

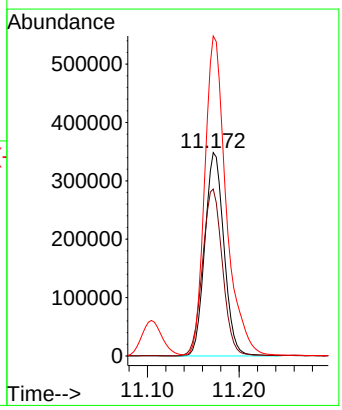


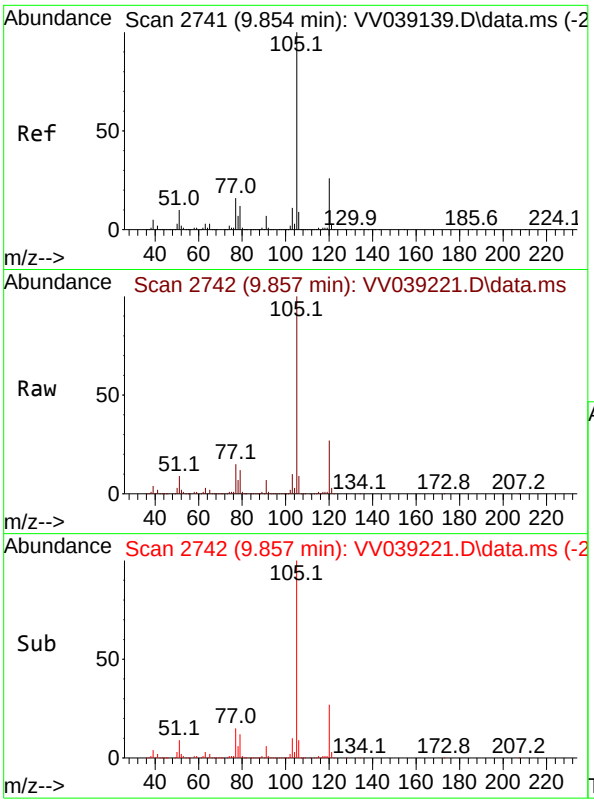


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:152 Resp: 505725

Ion	Ratio	Lower	Upper
152	100		
115	85.4	44.8	134.4
150	176.4	0.0	353.8



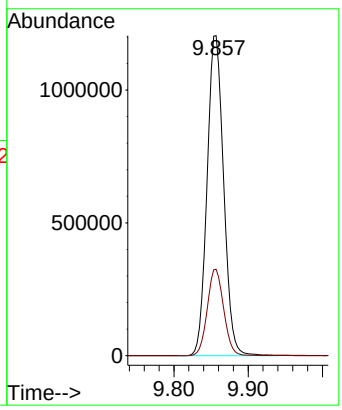


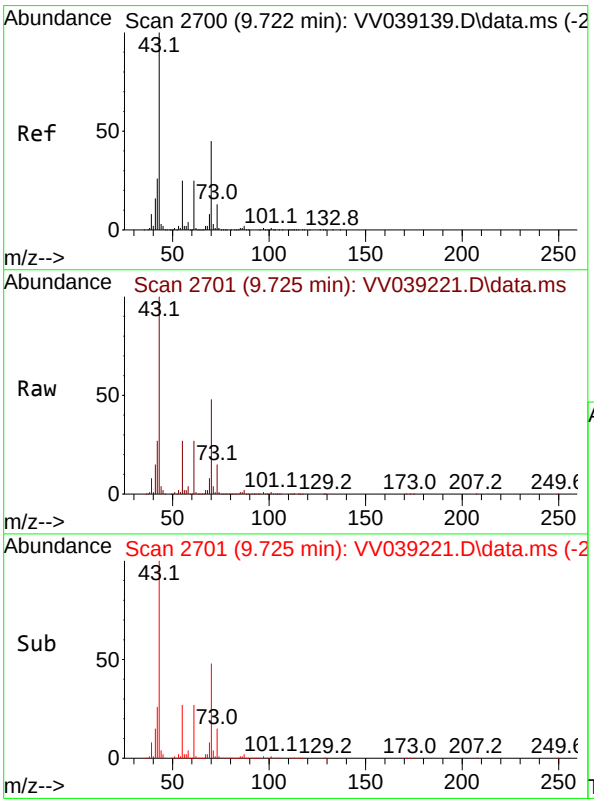
#73
Isopropylbenzene
Concen: 50.669 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1858552

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.1	39.1

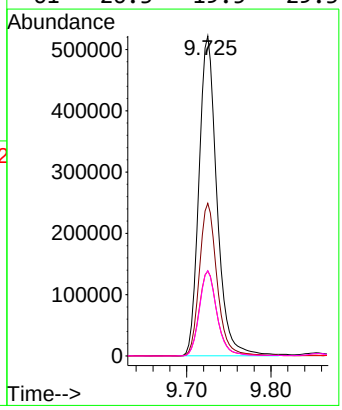


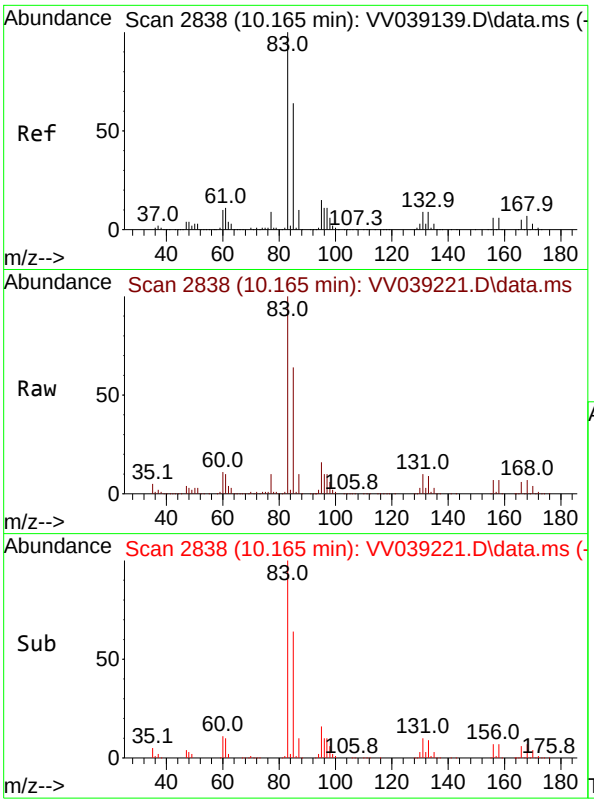


#74
N-amyl acetate
Concen: 52.920 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 43 Resp: 774283

Ion	Ratio	Lower	Upper
43	100		
70	47.2	35.4	53.0
55	26.5	20.6	30.8
61	26.3	19.5	29.3



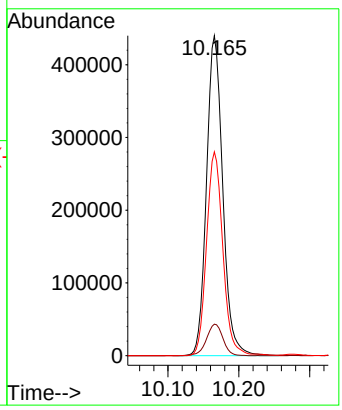


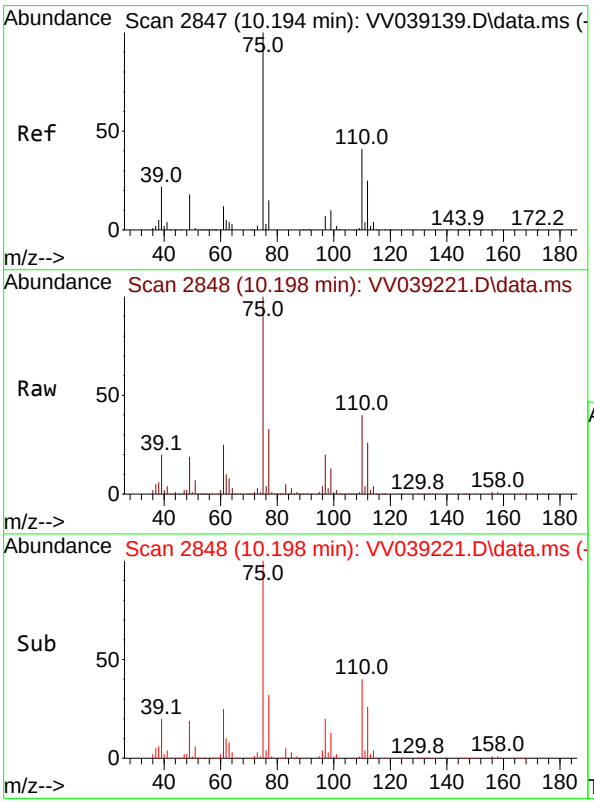
#75
1,1,2,2-Tetrachloroethane
Concen: 43.582 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 700437

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.5	13.7
85	64.1	31.9	95.9

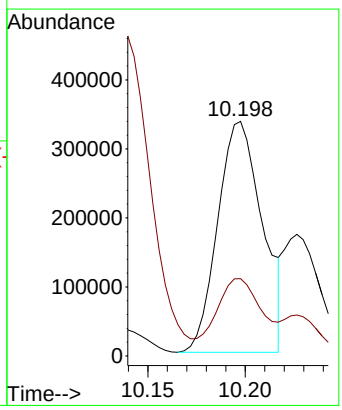


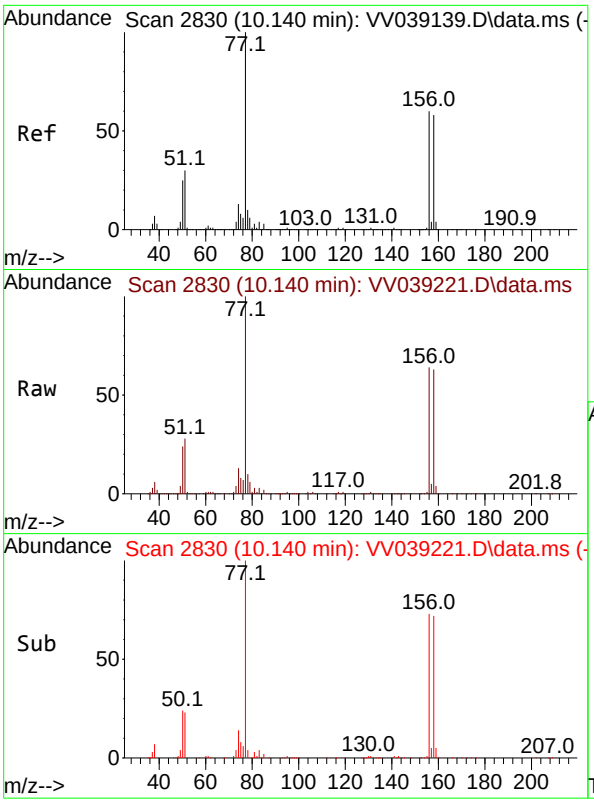


#76
1,2,3-Trichloropropane
Concen: 46.372 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 533949

Ion	Ratio	Lower	Upper
75	100		
77	22.9	11.3	33.8



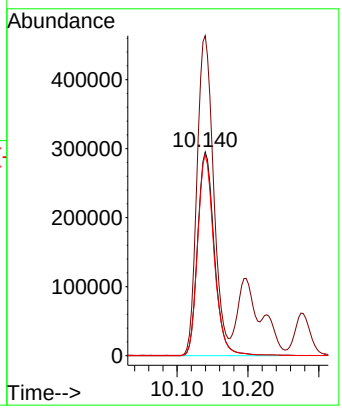


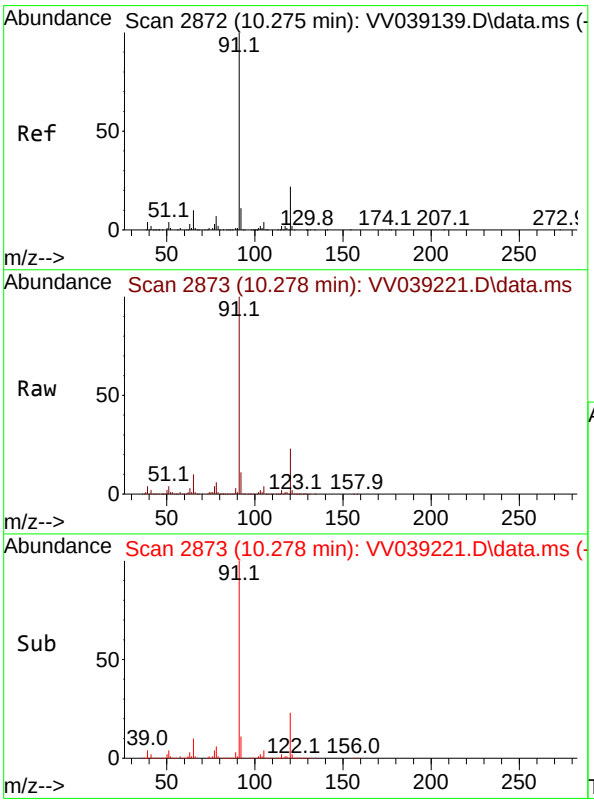
#77
Bromobenzene
Concen: 50.721 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 482692

Ion	Ratio	Lower	Upper
156	100		
77	154.6	83.4	250.1
158	96.9	48.8	146.4

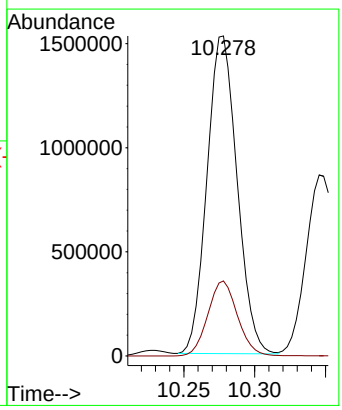


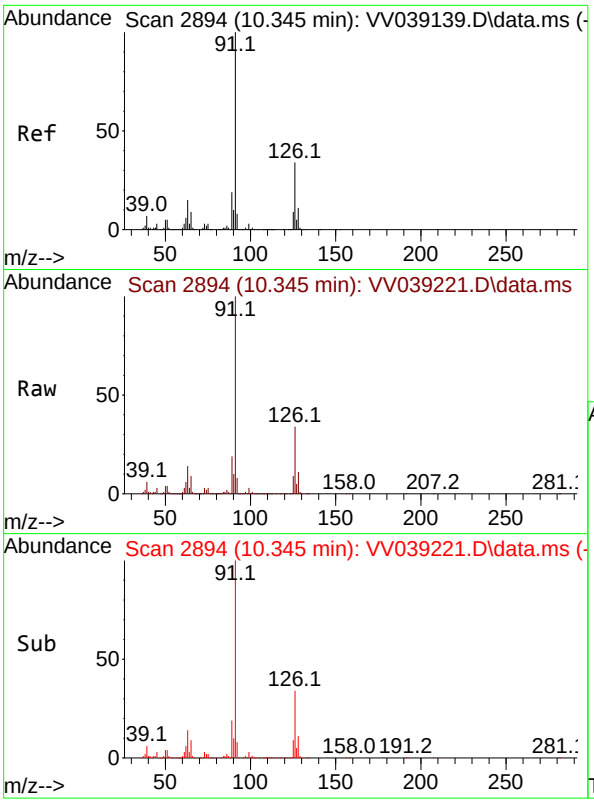


#78
n-propylbenzene
Concen: 50.455 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 91 Resp: 2253738

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.1	33.3



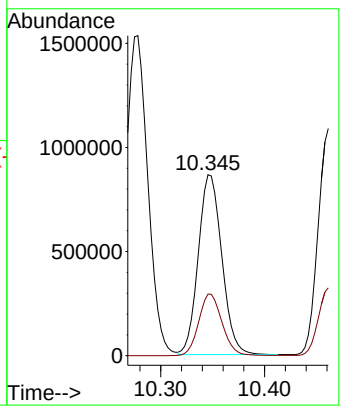


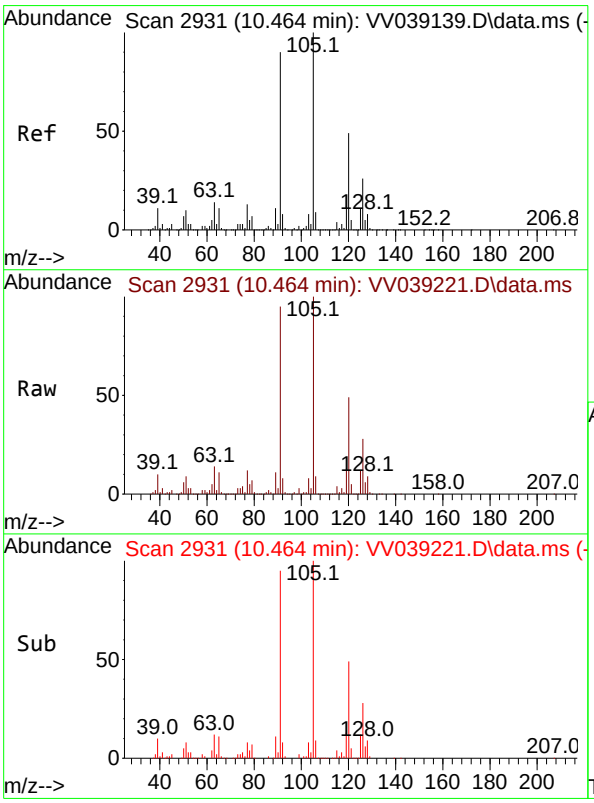
#79
2-Chlorotoluene
Concen: 50.902 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1360520

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.7	50.0

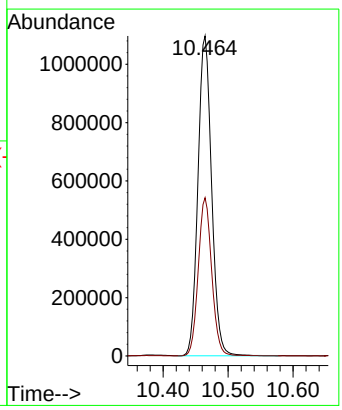


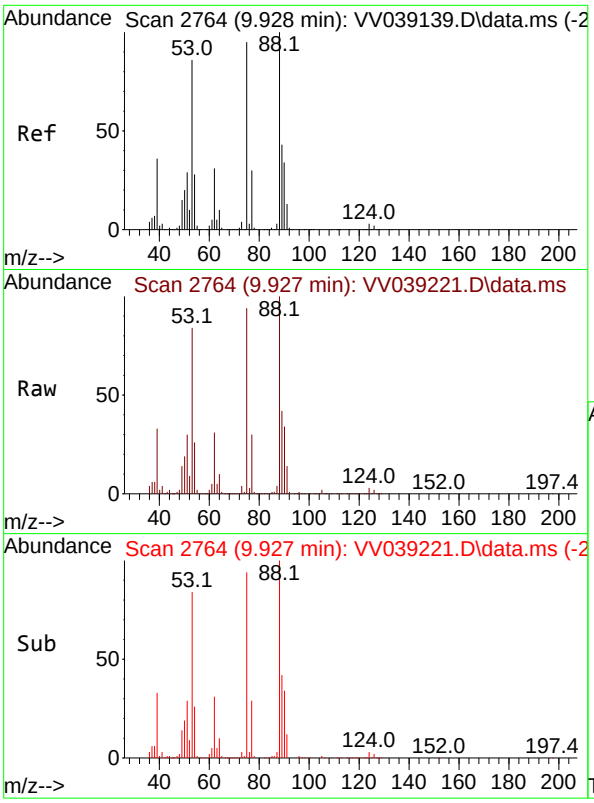


#80
1,3,5-Trimethylbenzene
Concen: 52.744 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:105 Resp: 1608070

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.3	72.8



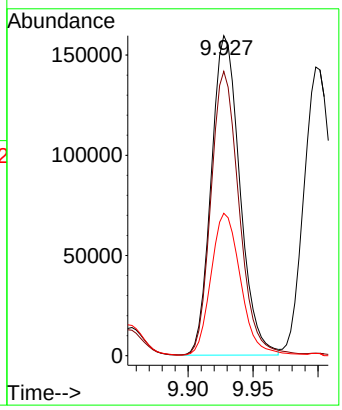


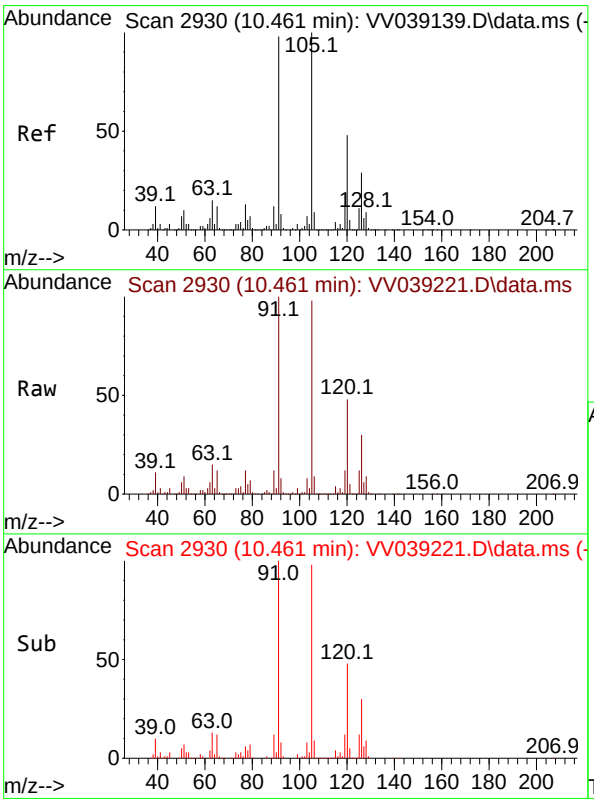
#81
trans-1,4-Dichloro-2-butene
Concen: 50.900 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 244133

Ion	Ratio	Lower	Upper
75	100		
53	87.0	72.5	108.7
89	46.0	37.2	55.8

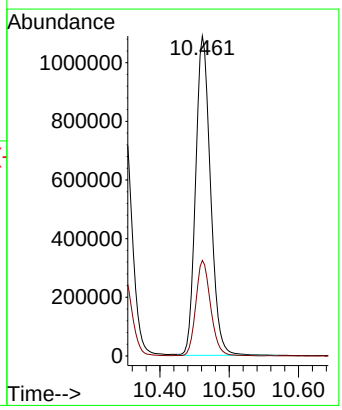


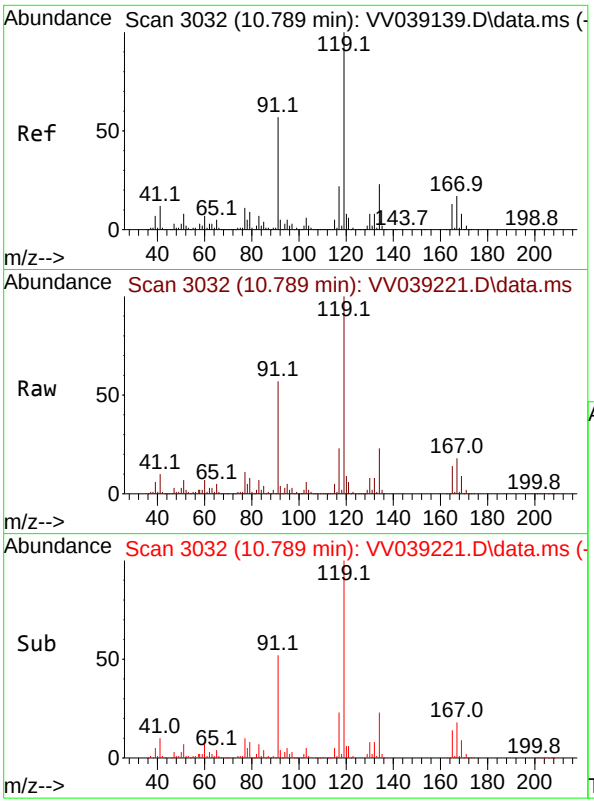


#82
4-Chlorotoluene
Concen: 52.536 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 91 Resp: 1628242

Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.5	43.6



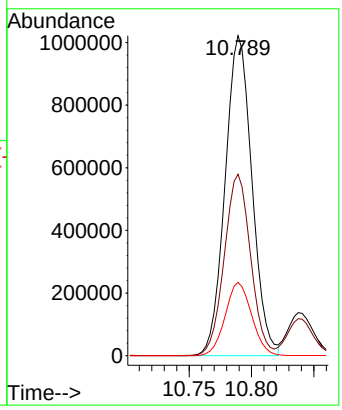


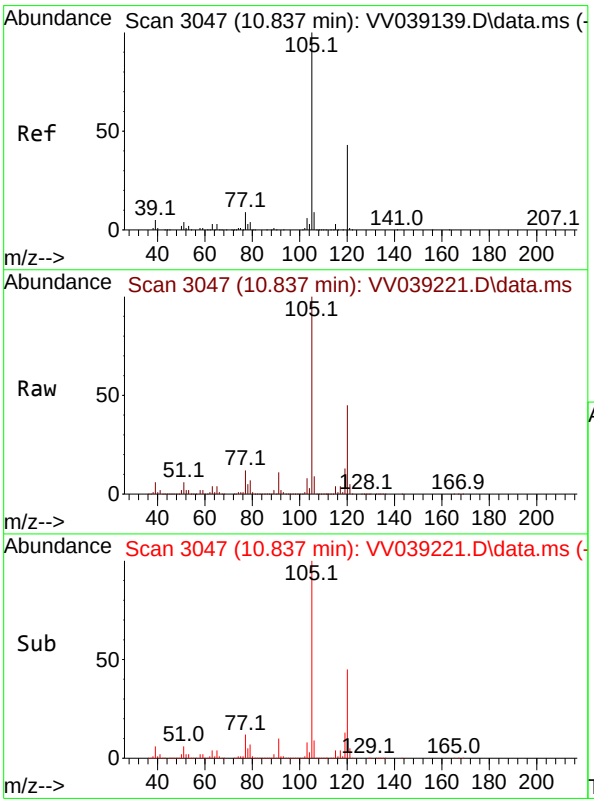
#83
tert-Butylbenzene
Concen: 50.388 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 1531883

Ion	Ratio	Lower	Upper
119	100		
91	55.7	28.5	85.6
134	22.7	11.5	34.4

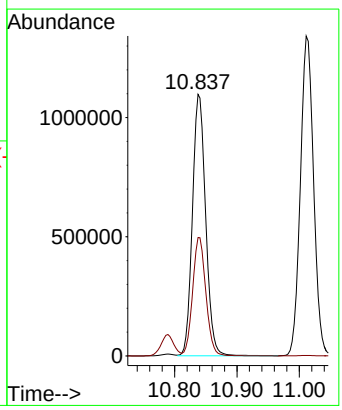


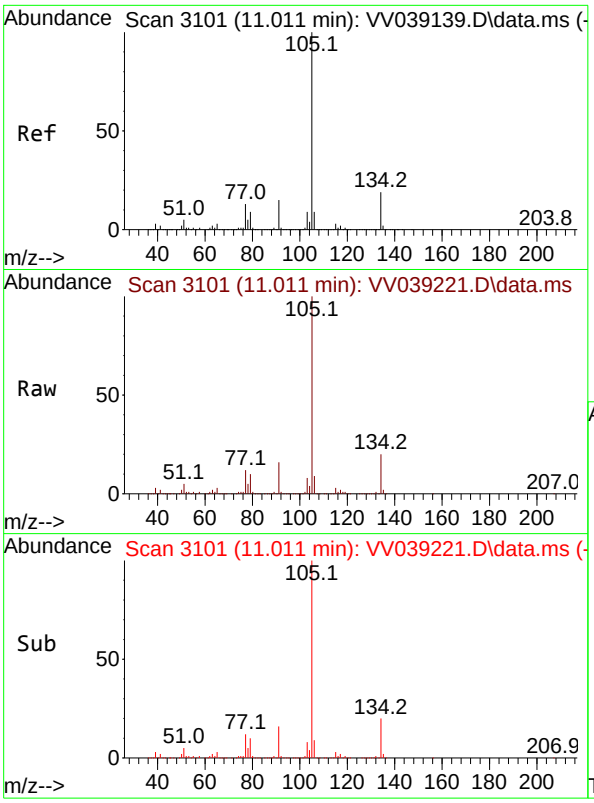


#84
1,2,4-Trimethylbenzene
Concen: 54.363 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:105 Resp: 1609100

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.4	67.2



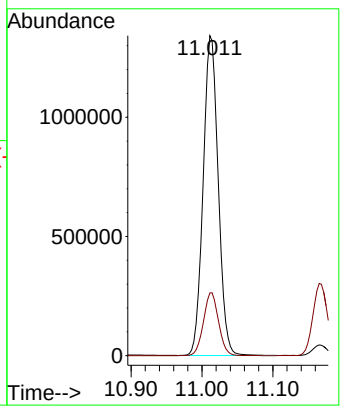


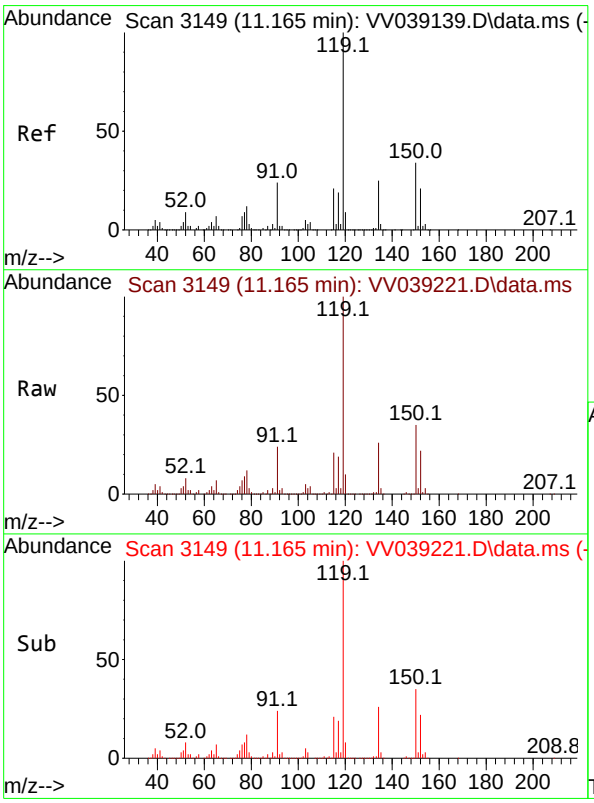
#85
sec-Butylbenzene
Concen: 48.994 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1975626

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.6	28.8

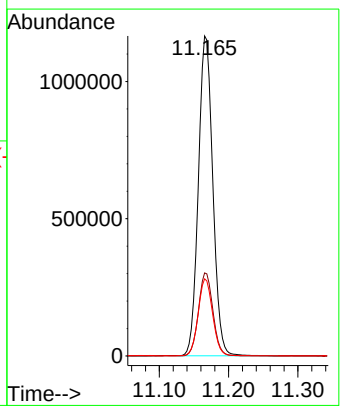


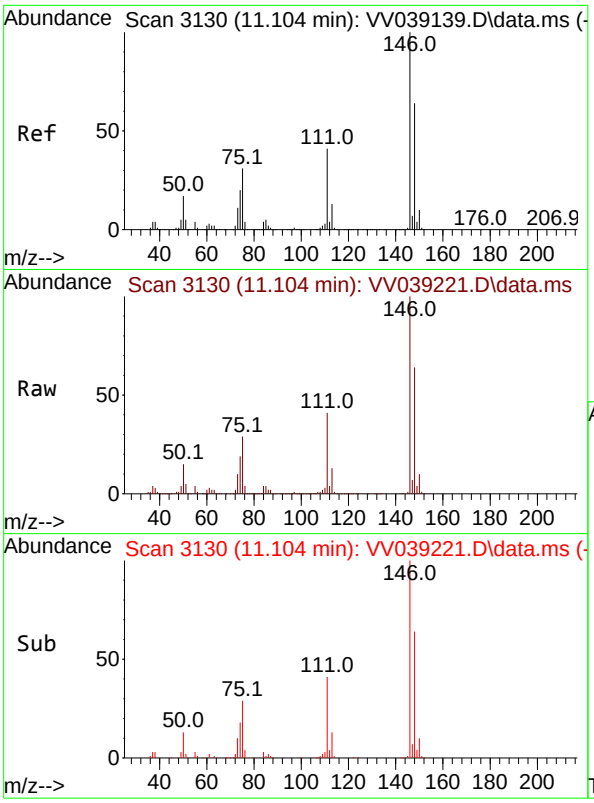


#86
p-Isopropyltoluene
Concen: 50.284 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:119 Resp: 1687605

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.7	38.0
91	24.0	12.0	36.1



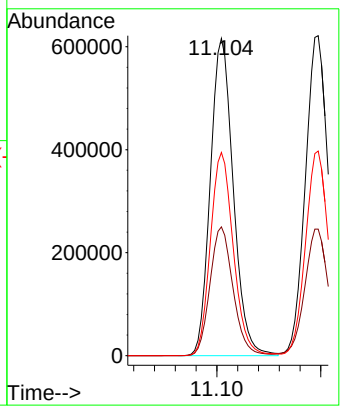


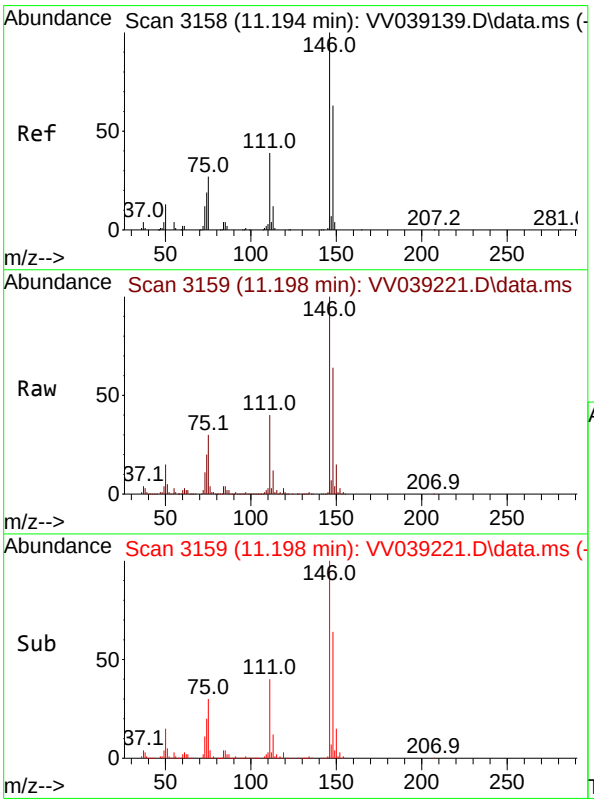
#87
1,3-Dichlorobenzene
Concen: 49.068 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 945060

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.9	62.8
148	64.2	31.8	95.3

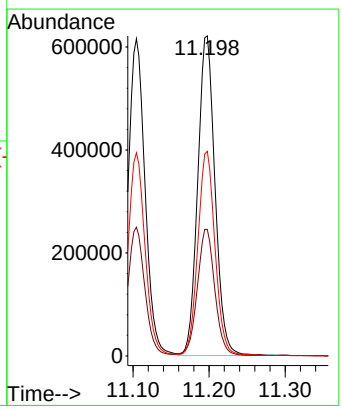


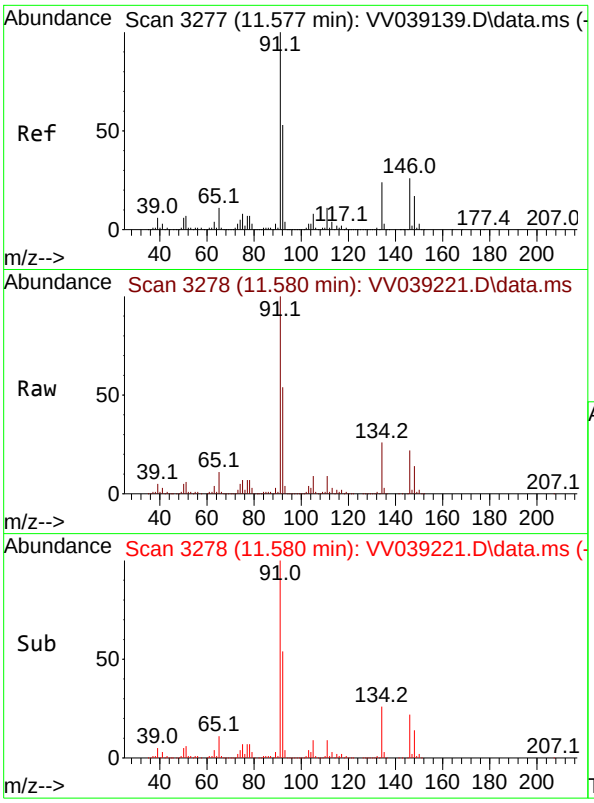


#88
1,4-Dichlorobenzene
Concen: 46.414 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:146 Resp: 980757

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.3	60.8
148	63.5	31.4	94.2



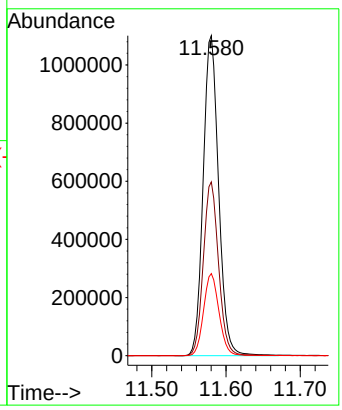


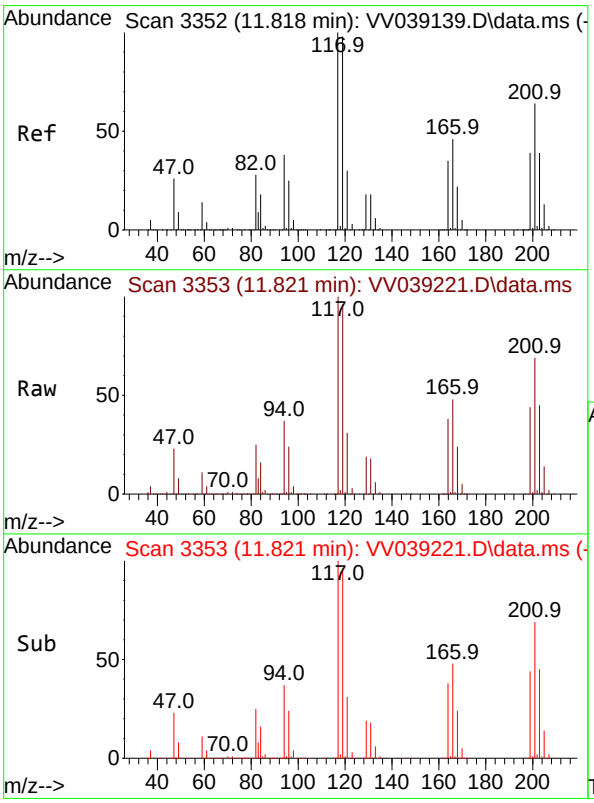
#89
n-Butylbenzene
Concen: 49.442 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1584773

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	79.8
134	25.6	12.1	36.3

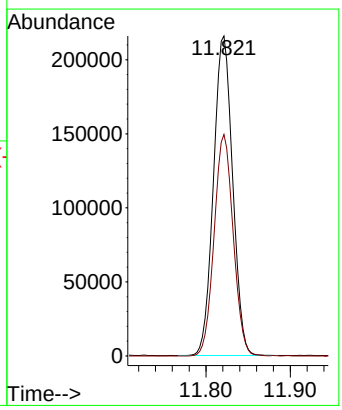


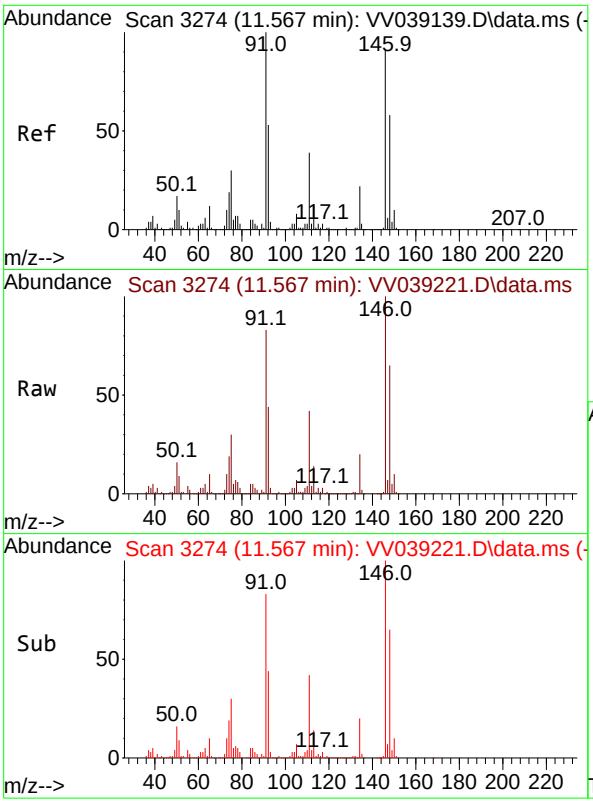


#90
Hexachloroethane
Concen: 41.164 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:117 Resp: 340207

Ion	Ratio	Lower	Upper
117	100		
201	69.0	32.3	96.8



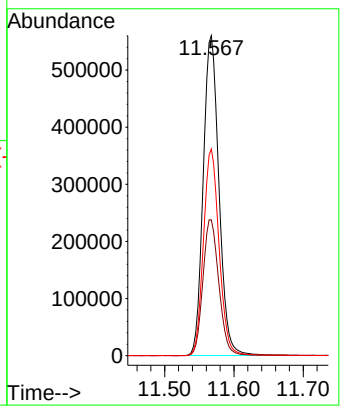


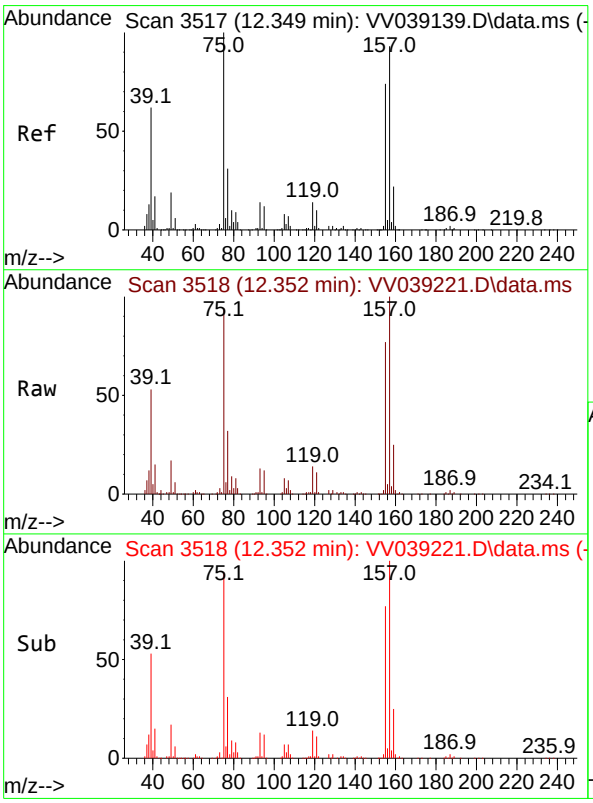
#91
1,2-Dichlorobenzene
Concen: 48.984 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 881445

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.5	64.5
148	64.3	31.9	95.7

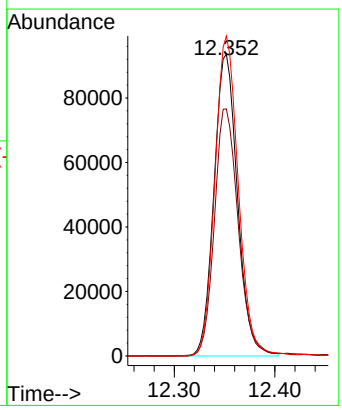


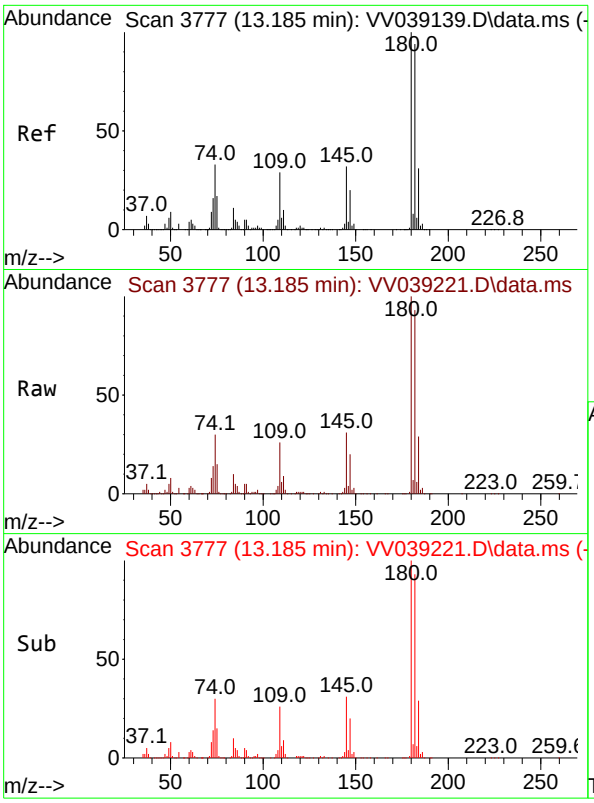


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.555 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 152326

Ion	Ratio	Lower	Upper
75	100		
155	83.2	38.6	115.8
157	105.7	49.5	148.3



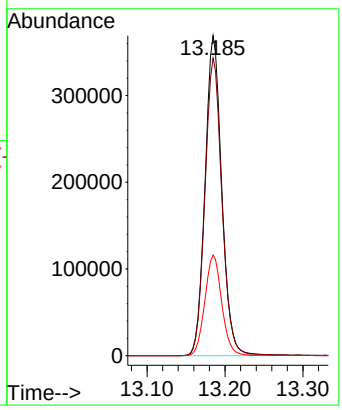


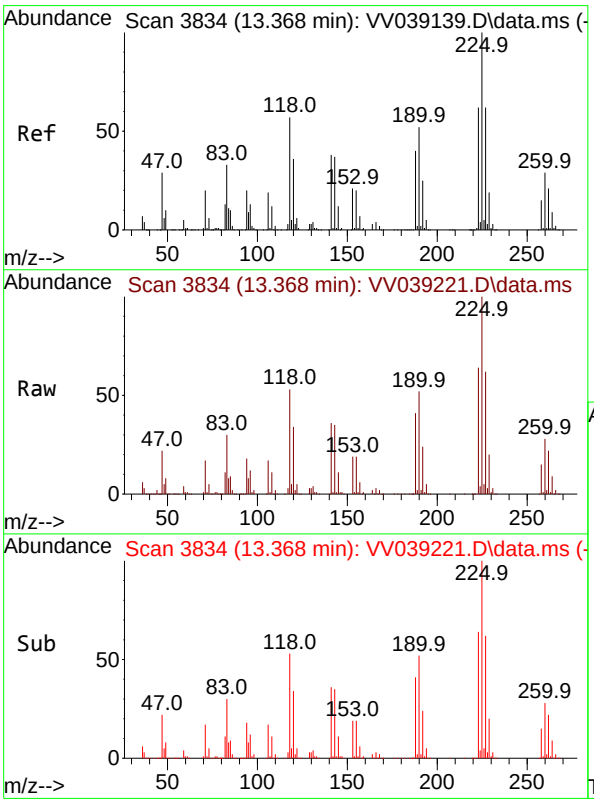
#93
1,2,4-Trichlorobenzene
Concen: 53.472 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 551570

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.1	141.4
145	31.7	16.3	48.8

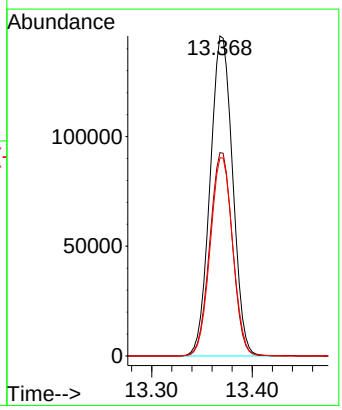


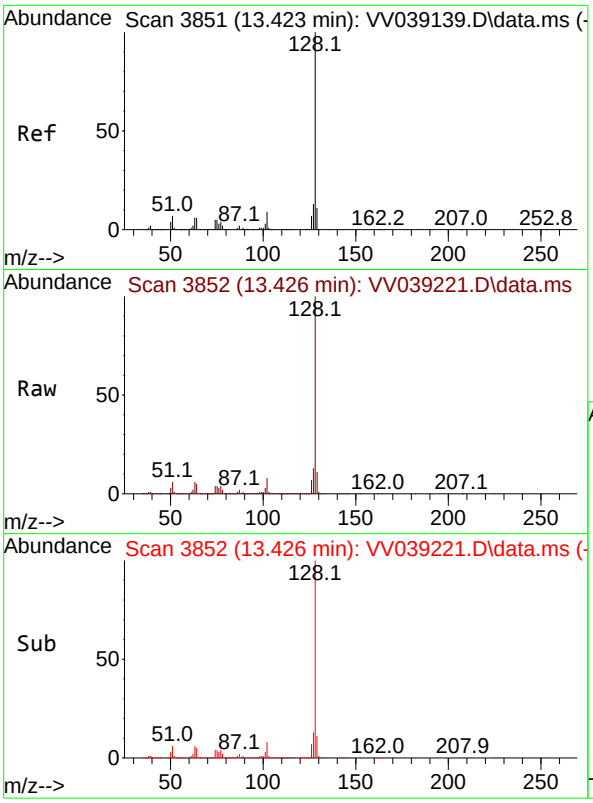


#94
Hexachlorobutadiene
Concen: 42.405 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:225 Resp: 227281

Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.6	94.7
227	61.9	31.8	95.4



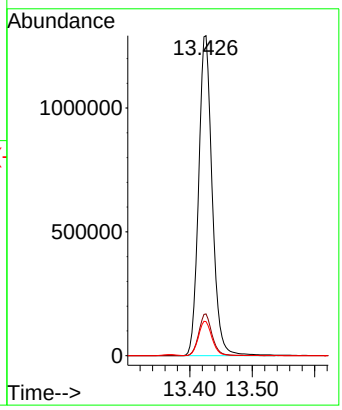


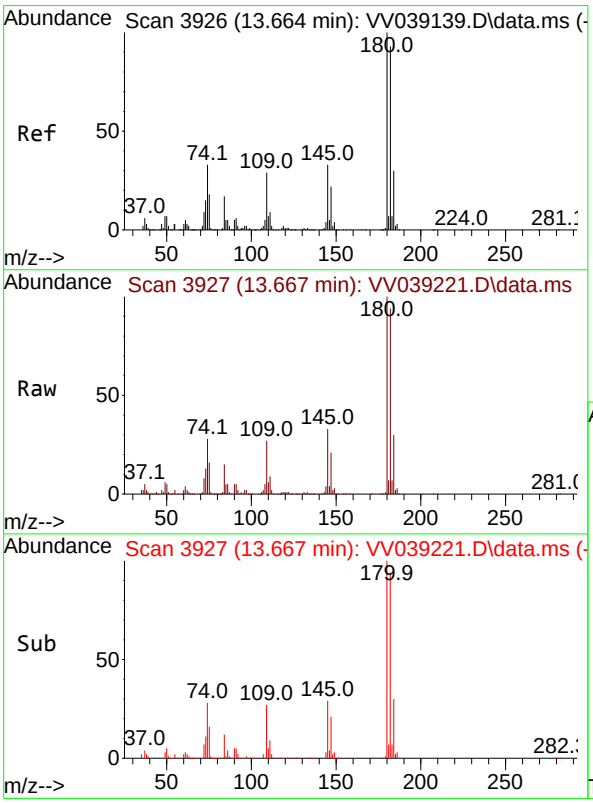
#95
Naphthalene
Concen: 58.576 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 1952932

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.7	8.6	13.0

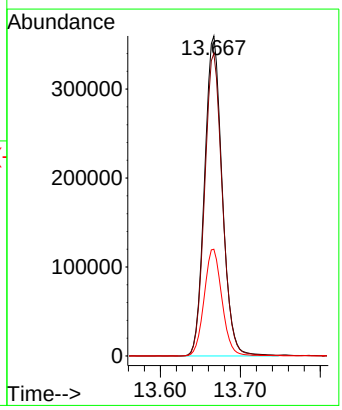




#96
1,2,3-Trichlorobenzene
Concen: 52.439 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:180 Resp: 553227

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.9	140.8
145	33.8	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.791	0.659	16.7	89	0.00
3	P	Chloromethane	0.850	0.707	16.8	92	0.00
4	C	Vinyl Chloride	0.910	0.786	13.6#	94	0.00
5	T	Bromomethane	0.573	0.490	14.5	97	0.00
6	T	Chloroethane	0.631	0.491	22.2#	92	0.00
7	T	Trichlorofluoromethane	1.317	1.189	9.7	100	0.00
8	T	Diethyl Ether	0.489	0.440	10.0	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.784	0.724	7.7	103	0.00
10	T	Methyl Iodide	0.746	0.768	-2.9	98	0.00
11	T	Tert butyl alcohol	0.153	0.157	-2.6	115	0.00
12	CM	1,1-Dichloroethene	0.754	0.695	7.8#	103	0.00
13	T	Acrolein	0.027	0.024	11.1	91	0.00
14	T	Allyl chloride	1.347	1.184	12.1	95	0.00
15	T	Acrylonitrile	0.490	0.440	10.2	101	0.00
16	T	Acetone	0.523	0.434	17.0	97	0.00
17	T	Carbon Disulfide	2.306	1.828	20.7#	88	0.00
18	T	Methyl Acetate	1.072	1.050	2.1	107	0.00
19	T	Methyl tert-butyl Ether	2.402	2.254	6.2	101	0.00
20	T	Methylene Chloride	1.066	0.767	28.0#	99	0.00
21	T	trans-1,2-Dichloroethene	0.803	0.724	9.8	100	0.00
22	T	Diisopropyl ether	2.576	2.248	12.7	89	0.00
23	T	Vinyl Acetate	2.254	1.985	11.9	90	0.00
24	P	1,1-Dichloroethane	1.576	1.334	15.4	96	0.00
25	T	2-Butanone	0.579	0.558	3.6	95	0.00
26	T	2,2-Dichloropropane	1.397	1.160	17.0	94	0.00
27	T	cis-1,2-Dichloroethene	0.885	0.827	6.6	95	0.00
28	T	Bromochloromethane	0.696	0.617	11.4	91	0.00
29	T	Tetrahydrofuran	0.363	0.349	3.9	95	0.00
30	C	Chloroform	1.645	1.392	15.4#	94	0.00
31	T	Cyclohexane	1.291	1.037	19.7	83	0.00
32	T	1,1,1-Trichloroethane	1.424	1.220	14.3	94	0.00
33	S	1,2-Dichloroethane-d4	0.724	0.620	14.4	96	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35	S	Dibromofluoromethane	0.402	0.411	-2.2	103	0.00
36	T	1,1-Dichloropropene	0.608	0.591	2.8	90	0.00
37	T	Ethyl Acetate	0.737	0.698	5.3	92	0.00
38	T	Carbon Tetrachloride	0.743	0.703	5.4	94	0.00
39	T	Methylcyclohexane	0.734	0.707	3.7	81	0.00
40	TM	Benzene	1.979	1.913	3.3	91	0.00
41	T	Methacrylonitrile	0.273	0.321	-17.6	91	0.00
42	TM	1,2-Dichloroethane	0.693	0.637	8.1	90	0.00
43	T	Isopropyl Acetate	1.005	1.025	-2.0	90	0.00
44	TM	Trichloroethene	0.457	0.476	-4.2	97	0.00
45	C	1,2-Dichloropropane	0.492	0.485	1.4#	91	0.00
46	T	Dibromomethane	0.376	0.369	1.9	95	0.00
47	T	Bromodichloromethane	0.778	0.737	5.3	92	0.00
48	T	Methyl methacrylate	0.456	0.487	-6.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.008	-14.3	101	0.00
50	S	Toluene-d8	1.181	1.144	3.1	95	0.00
51	T	4-Methyl-2-Pentanone	0.661	0.717	-8.5	92	0.00
52	CM	Toluene	1.147	1.217	-6.1#	93	0.00
53	T	t-1,3-Dichloropropene	0.678	0.731	-7.8	95	0.00
54	T	cis-1,3-Dichloropropene	0.749	0.796	-6.3	92	0.00
55	T	1,1,2-Trichloroethane	0.514	0.522	-1.6	99	0.00
56	T	Ethyl methacrylate	0.611	0.718	-17.5	94	0.00
57	T	1,3-Dichloropropane	0.812	0.818	-0.7	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.267	0.324	-21.3#	86	0.00
59	T	2-Hexanone	0.463	0.545	-17.7	94	0.00
60	T	Dibromochloromethane	0.586	0.600	-2.4	100	0.00
61	T	1,2-Dibromoethane	0.526	0.548	-4.2	98	0.00
62	S	4-Bromofluorobenzene	0.486	0.554	-14.0	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.419	0.432	-3.1	99	0.00
65	PM	Chlorobenzene	1.393	1.410	-1.2	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.503	0.517	-2.8	100	0.00
67	C	Ethyl Benzene	2.108	2.316	-9.9#	91	0.00
68	T	m/p-Xylenes	0.814	0.942	-15.7	93	0.00
69	T	o-Xylene	0.720	0.851	-18.2	95	0.00
70	T	Styrene	1.263	1.571	-24.4#	95	0.00
71	P	Bromoform	0.393	0.447	-13.7	106	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.627	3.675	-1.3	91	0.00
74	T	N-amyl acetate	1.447	1.531	-5.8	90	0.00
75	P	1,1,2,2-Tetrachloroethane	1.589	1.385	12.8	95	0.00
76	T	1,2,3-Trichloropropane	1.138	1.056	7.2	99	0.00
77	T	Bromobenzene	0.941	0.954	-1.4	101	0.00
78	T	n-propylbenzene	4.416	4.456	-0.9	89	0.00
79	T	2-Chlorotoluene	2.643	2.690	-1.8	93	0.00
80	T	1,3,5-Trimethylbenzene	3.014	3.180	-5.5	92	0.00
81	T	trans-1,4-Dichloro-2-butene	0.474	0.483	-1.9	96	0.00
82	T	4-Chlorotoluene	3.064	3.220	-5.1	95	0.00
83	T	tert-Butylbenzene	3.006	3.029	-0.8	92	0.00
84	T	1,2,4-Trimethylbenzene	2.926	3.182	-8.7	92	0.00
85	T	sec-Butylbenzene	3.987	3.907	2.0	88	0.00
86	T	p-Isopropyltoluene	3.318	3.337	-0.6	89	0.00
87	T	1,3-Dichlorobenzene	1.904	1.869	1.8	99	0.00
88	T	1,4-Dichlorobenzene	2.089	1.939	7.2	98	0.00
89	T	n-Butylbenzene	3.169	3.134	1.1	85	0.00
90	T	Hexachloroethane	0.817	0.673	17.6	91	0.00
91	T	1,2-Dichlorobenzene	1.779	1.743	2.0	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.330	0.301	8.8	103	0.00
93	T	1,2,4-Trichlorobenzene	1.020	1.091	-7.0	99	0.00
94	T	Hexachlorobutadiene	0.530	0.449	15.3	92	0.00
95	T	Naphthalene	3.296	3.862	-17.2	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.094	-4.9	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	50.000	41.647	16.7	89	0.00
3	P	Chloromethane	50.000	41.595	16.8	92	0.00
4	C	Vinyl Chloride	50.000	43.208	13.6#	94	0.00
5	T	Bromomethane	50.000	42.719	14.6	97	0.00
6	T	Chloroethane	50.000	45.569	8.9	92	0.00
7	T	Trichlorofluoromethane	50.000	45.139	9.7	100	0.00
8	T	Diethyl Ether	50.000	44.959	10.1	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.193	7.6	103	0.00
10	T	Methyl Iodide	50.000	51.451	-2.9	98	0.00
11	T	Tert butyl alcohol	250.000	257.107	-2.8	115	0.00
12	CM	1,1-Dichloroethene	50.000	46.086	7.8#	103	0.00
13	T	Acrolein	250.000	224.989	10.0	91	0.00
14	T	Allyl chloride	50.000	43.958	12.1	95	0.00
15	T	Acrylonitrile	250.000	224.569	10.2	101	0.00
16	T	Acetone	250.000	241.983	3.2	97	0.00
17	T	Carbon Disulfide	50.000	39.644	20.7#	88	0.00
18	T	Methyl Acetate	50.000	48.974	2.1	107	0.00
19	T	Methyl tert-butyl Ether	50.000	46.904	6.2	101	0.00
20	T	Methylene Chloride	50.000	48.961	2.1	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.121	9.8	100	0.00
22	T	Diisopropyl ether	50.000	43.628	12.7	89	0.00
23	T	Vinyl Acetate	250.000	220.202	11.9	90	0.00
24	P	1,1-Dichloroethane	50.000	42.328	15.3	96	0.00
25	T	2-Butanone	250.000	240.588	3.8	95	0.00
26	T	2,2-Dichloropropane	50.000	41.534	16.9	94	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.691	6.6	95	0.00
28	T	Bromochloromethane	50.000	44.343	11.3	91	0.00
29	T	Tetrahydrofuran	250.000	240.344	3.9	95	0.00
30	C	Chloroform	50.000	42.297	15.4#	94	0.00
31	T	Cyclohexane	50.000	40.190	19.6	83	0.00
32	T	1,1,1-Trichloroethane	50.000	42.812	14.4	94	0.00
33	S	1,2-Dichloroethane-d4	50.000	42.808	14.4	96	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	51.100	-2.2	103	0.00
36	T	1,1-Dichloropropene	50.000	48.595	2.8	90	0.00
37	T	Ethyl Acetate	50.000	47.309	5.4	92	0.00
38	T	Carbon Tetrachloride	50.000	47.329	5.3	94	0.00
39	T	Methylcyclohexane	50.000	48.172	3.7	81	0.00
40	TM	Benzene	50.000	48.334	3.3	91	0.00
41	T	Methacrylonitrile	50.000	48.162	3.7	91	0.00
42	TM	1,2-Dichloroethane	50.000	45.932	8.1	90	0.00
43	T	Isopropyl Acetate	50.000	50.981	-2.0	90	0.00
44	TM	Trichloroethene	50.000	52.139	-4.3	97	0.00
45	C	1,2-Dichloropropane	50.000	49.295	1.4#	91	0.00
46	T	Dibromomethane	50.000	49.060	1.9	95	0.00
47	T	Bromodichloromethane	50.000	47.336	5.3	92	0.00
48	T	Methyl methacrylate	50.000	53.435	-6.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1093.922	-9.4	101	0.00
50	S	Toluene-d8	50.000	48.458	3.1	95	0.00
51	T	4-Methyl-2-Pentanone	250.000	271.028	-8.4	92	0.00
52	CM	Toluene	50.000	53.051	-6.1#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	53.914	-7.8	95	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.126	-6.3	92	0.00
55	T	1,1,2-Trichloroethane	50.000	50.719	-1.4	99	0.00
56	T	Ethyl methacrylate	50.000	58.788	-17.6	94	0.00
57	T	1,3-Dichloropropane	50.000	50.365	-0.7	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	235.318	5.9	86	0.00
59	T	2-Hexanone	250.000	255.225	-2.1	94	0.00
60	T	Dibromochloromethane	50.000	51.151	-2.3	100	0.00
61	T	1,2-Dibromoethane	50.000	52.094	-4.2	98	0.00
62	S	4-Bromofluorobenzene	50.000	57.013	-14.0	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	51.636	-3.3	99	0.00
65	PM	Chlorobenzene	50.000	50.604	-1.2	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.392	-2.8	100	0.00
67	C	Ethyl Benzene	50.000	54.927	-9.9#	91	0.00
68	T	m/p-Xylenes	100.000	115.793	-15.8	93	0.00
69	T	o-Xylene	50.000	59.062	-18.1	95	0.00
70	T	Styrene	50.000	51.432	-2.9	95	0.00
71	P	Bromoform	50.000	56.878	-13.8	106	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	50.669	-1.3	91	0.00
74	T	N-amyl acetate	50.000	52.920	-5.8	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.582	12.8	95	0.00
76	T	1,2,3-Trichloropropane	50.000	46.372	7.3	99	0.00
77	T	Bromobenzene	50.000	50.721	-1.4	101	0.00
78	T	n-propylbenzene	50.000	50.455	-0.9	89	0.00
79	T	2-Chlorotoluene	50.000	50.902	-1.8	93	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.744	-5.5	92	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.900	-1.8	96	0.00
82	T	4-Chlorotoluene	50.000	52.536	-5.1	95	0.00
83	T	tert-Butylbenzene	50.000	50.388	-0.8	92	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.363	-8.7	92	0.00
85	T	sec-Butylbenzene	50.000	48.994	2.0	88	0.00
86	T	p-Isopropyltoluene	50.000	50.284	-0.6	89	0.00
87	T	1,3-Dichlorobenzene	50.000	49.068	1.9	99	0.00
88	T	1,4-Dichlorobenzene	50.000	46.414	7.2	98	0.00
89	T	n-Butylbenzene	50.000	49.442	1.1	85	0.00
90	T	Hexachloroethane	50.000	41.164	17.7	91	0.00
91	T	1,2-Dichlorobenzene	50.000	48.984	2.0	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.555	-5.1	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.472	-6.9	99	0.00
94	T	Hexachlorobutadiene	50.000	42.405	15.2	92	0.00
95	T	Naphthalene	50.000	58.576	-17.2	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.439	-4.9	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

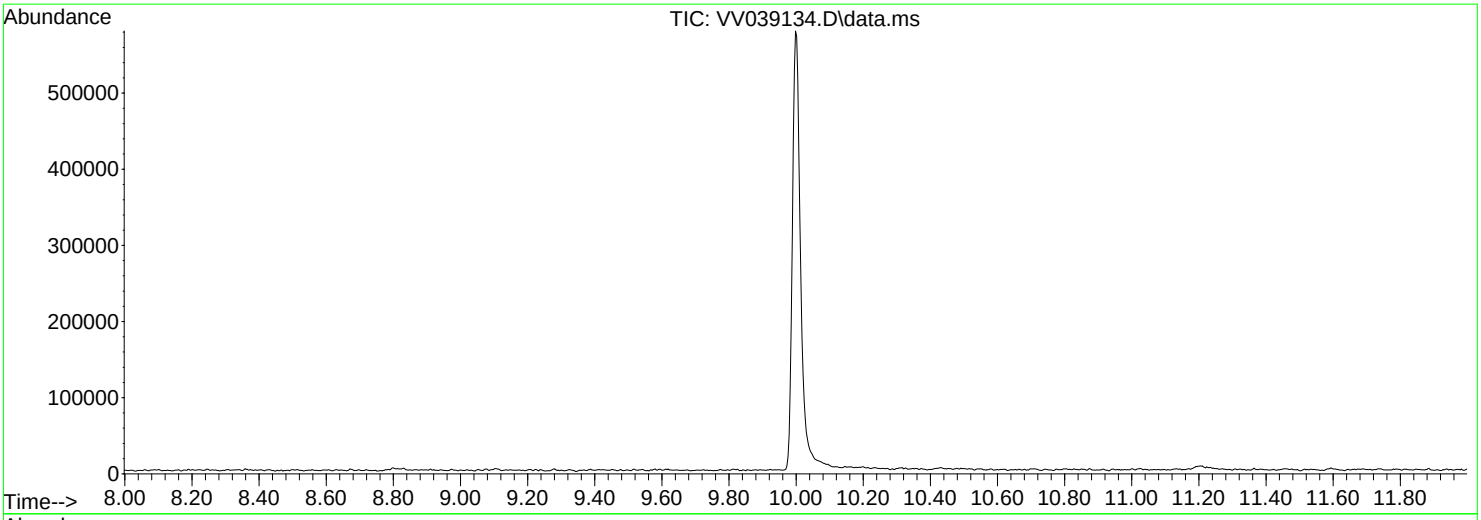
QC SAMPLE DATA

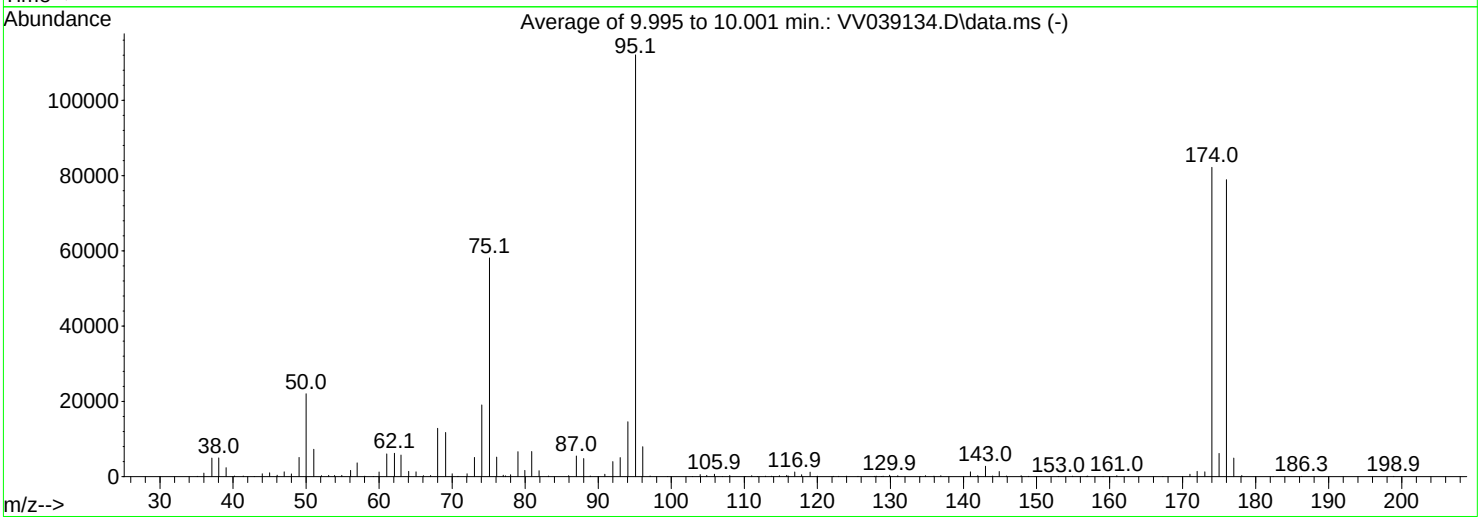
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039134.D
Acq On : 22 Sep 2025 10:15
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025





AutoFind: Scans 2785, 2786, 2787; Background Corrected with Scan 2774

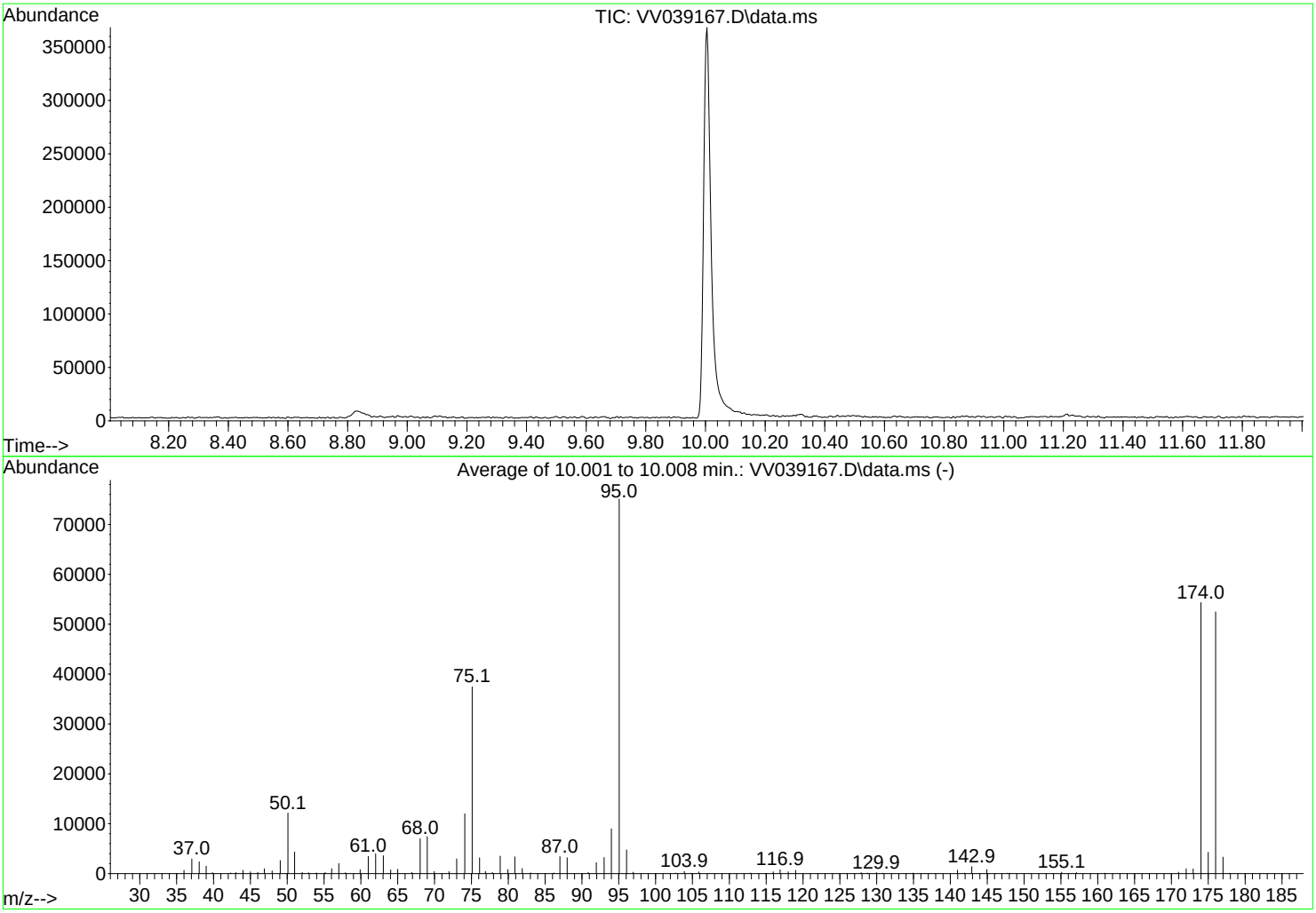
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	22014	PASS
75	95	30	60	51.9	58147	PASS
95	95	100	100	100.0	112096	PASS
96	95	5	9	7.1	7955	PASS
173	174	0.00	2	1.6	1275	PASS
174	95	50	100	73.3	82200	PASS
175	174	5	9	7.5	6152	PASS
176	174	95	101	96.0	78917	PASS
177	176	5	9	6.3	4933	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039167.D
Acq On : 25 Sep 2025 09:14
Operator : SY/MD
Sample : BFB
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025



AutoFind: Scans 2787, 2788, 2789; Background Corrected with Scan 2776

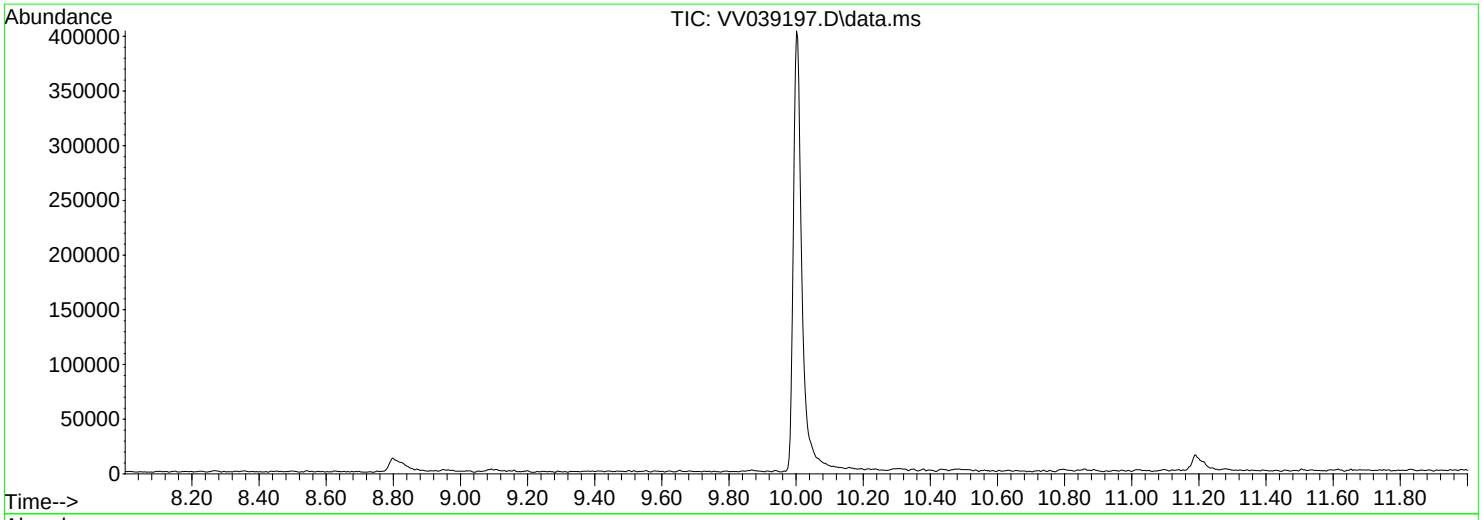
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	12139	PASS
75	95	30	60	49.9	37445	PASS
95	95	100	100	100.0	75093	PASS
96	95	5	9	6.3	4756	PASS
173	174	0.00	2	1.7	944	PASS
174	95	50	100	72.3	54320	PASS
175	174	5	9	7.9	4279	PASS
176	174	95	101	96.6	52461	PASS
177	176	5	9	6.3	3317	PASS

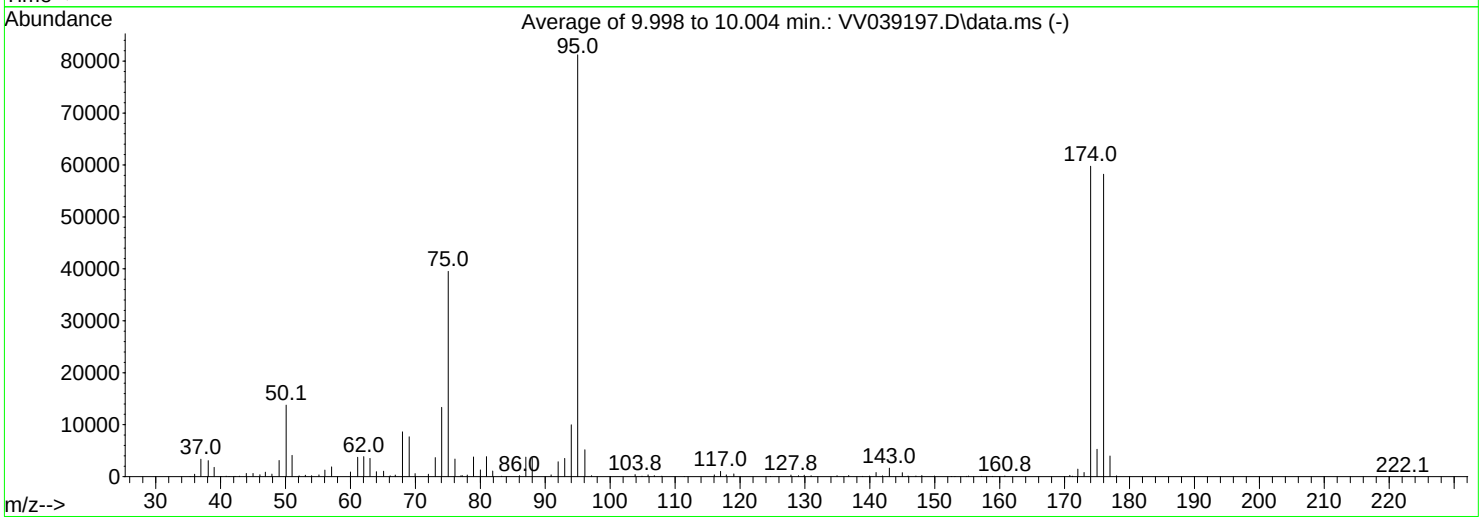
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039197.D
Acq On : 26 Sep 2025 08:14
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025





AutoFind: Scans 2786, 2787, 2788; Background Corrected with Scan 2772

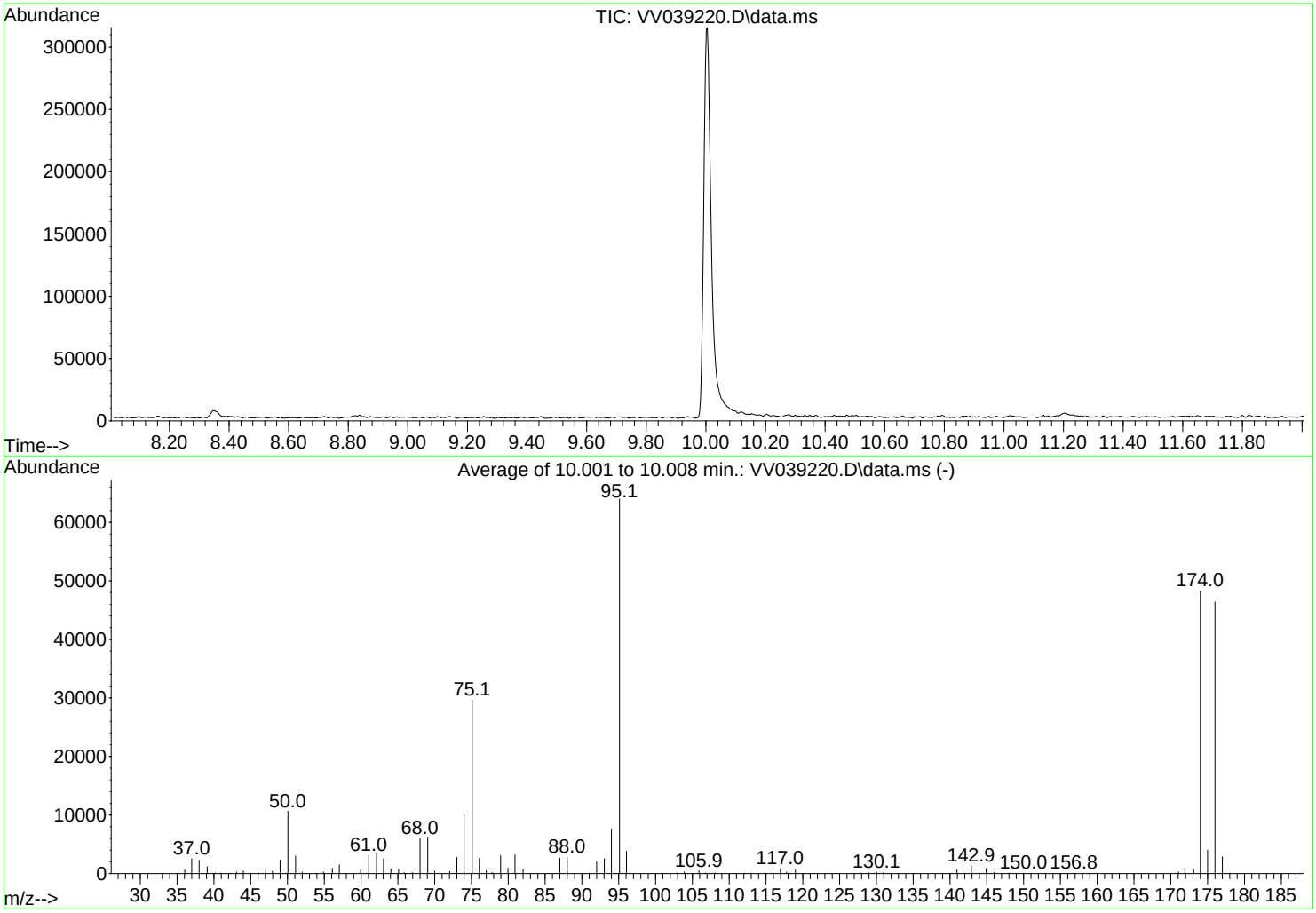
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	13756	PASS
75	95	30	60	48.7	39531	PASS
95	95	100	100	100.0	81205	PASS
96	95	5	9	6.4	5186	PASS
173	174	0.00	2	1.4	815	PASS
174	95	50	100	73.6	59763	PASS
175	174	5	9	8.8	5272	PASS
176	174	95	101	97.4	58227	PASS
177	176	5	9	6.8	3983	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039220.D
Acq On : 29 Sep 2025 09:48
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025



AutoFind: Scans 2787, 2788, 2789; Background Corrected with Scan 2776

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	10649	PASS
75	95	30	60	46.3	29627	PASS
95	95	100	100	100.0	63979	PASS
96	95	5	9	6.0	3829	PASS
173	174	0.00	2	1.7	809	PASS
174	95	50	100	75.5	48283	PASS
175	174	5	9	8.3	4007	PASS
176	174	95	101	96.1	46392	PASS
177	176	5	9	6.2	2861	PASS

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0925WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0925WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039170.D	1	09/25/25 11:01	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0925WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0925WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039170.D	1	09/25/25 11:01	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.1		74 - 125	120%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		75 - 124	107%	SPK: 50
2037-26-5	Toluene-d8	47.3		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.1		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	480000	4.597			
540-36-3	1,4-Difluorobenzene	865000	5.532			
3114-55-4	Chlorobenzene-d5	871000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	414000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0925WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0925WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039170.D	1	09/25/25 11:01	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Quant Time: Sep 26 01:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

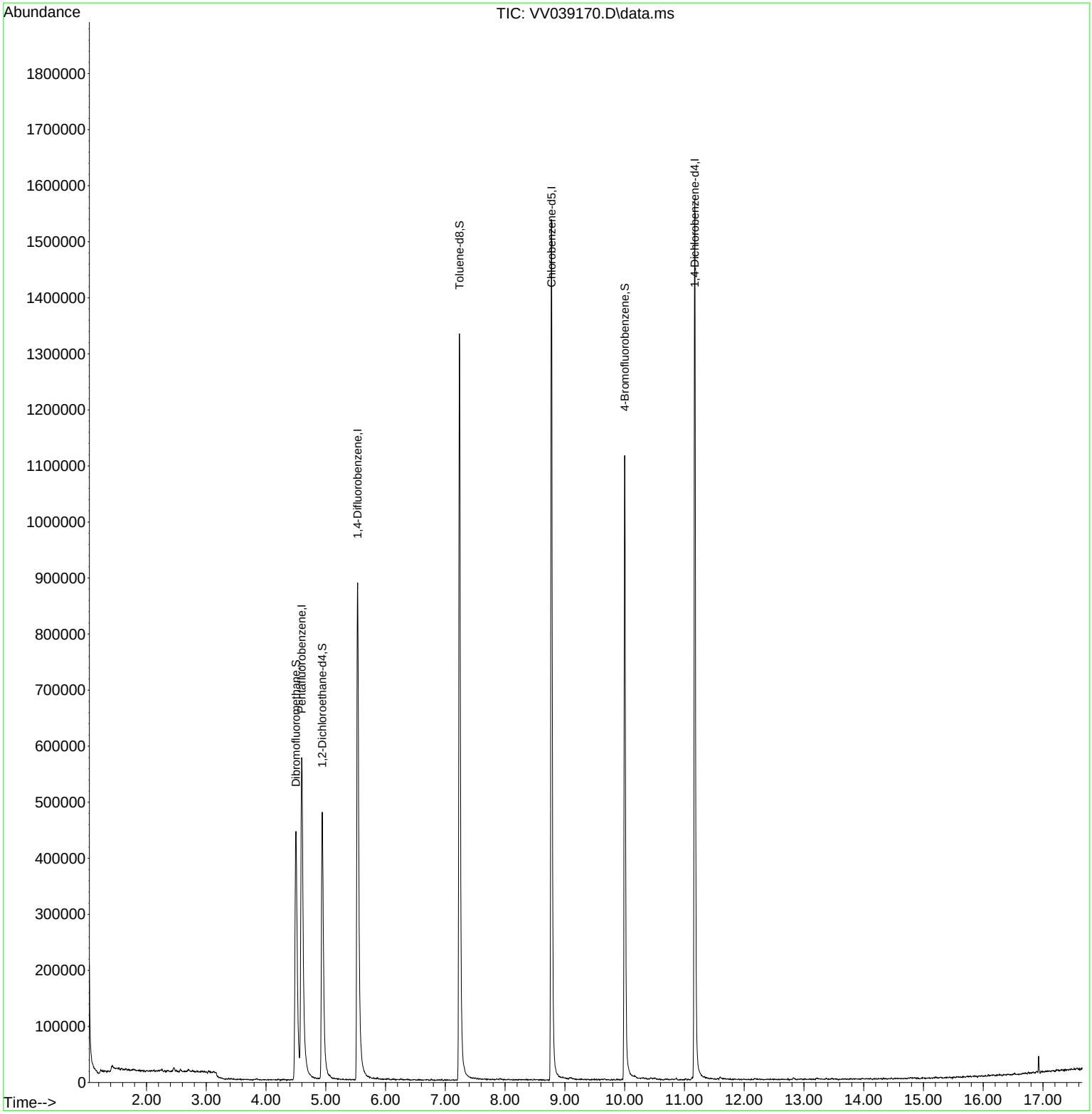
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.597	168	480047	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	864912	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	870930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	413592	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	417535	60.097	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 120.200%#			
35) Dibromofluoromethane	4.500	113	370419	53.273	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 106.540%			
50) Toluene-d8	7.236	98	965988	47.302	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.600%			
62) 4-Bromofluorobenzene	10.001	95	371030	44.133	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.260%			
Target Compounds						Qvalue

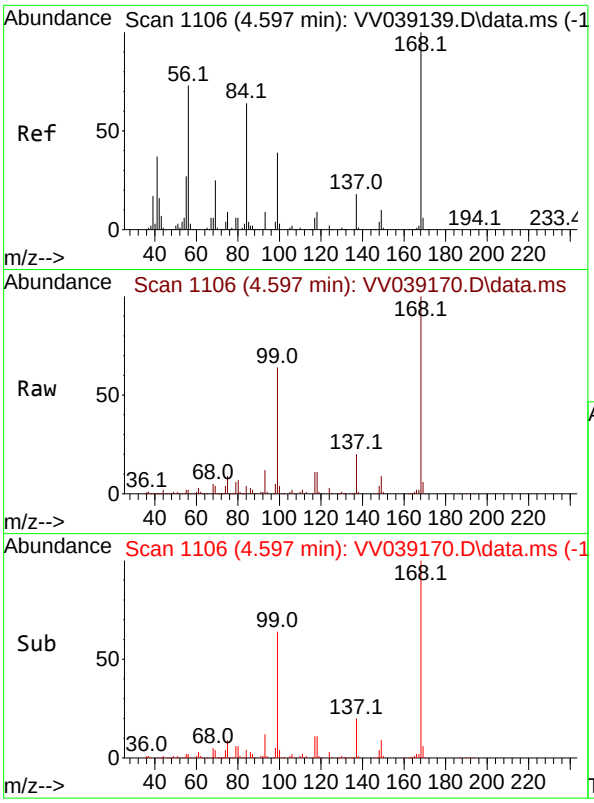
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Quant Time: Sep 26 01:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



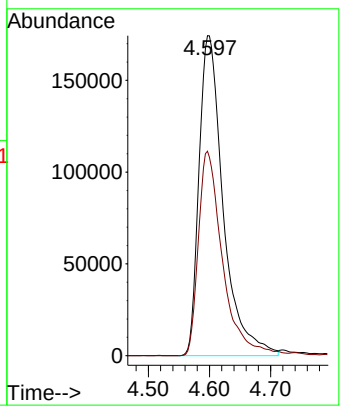


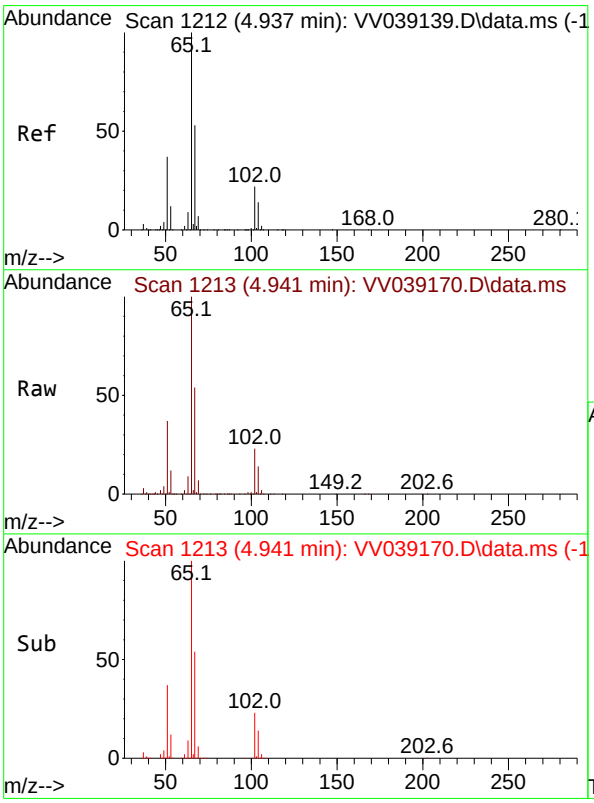
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Tgt Ion:168 Resp: 480047

Ion	Ratio	Lower	Upper
168	100		
99	63.9	49.6	74.4

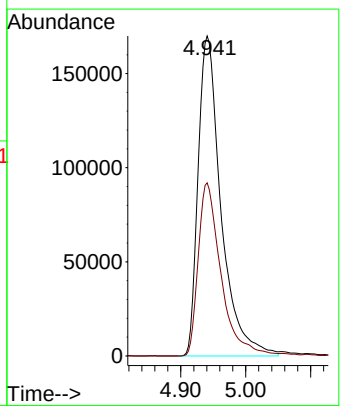


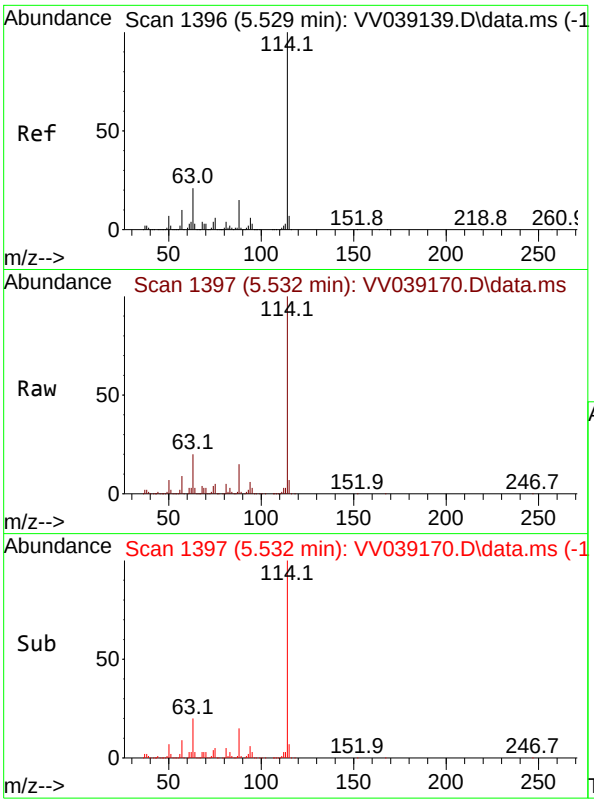


#33
1,2-Dichloroethane-d4
Concen: 60.097 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 65 Resp: 417535

Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	107.0



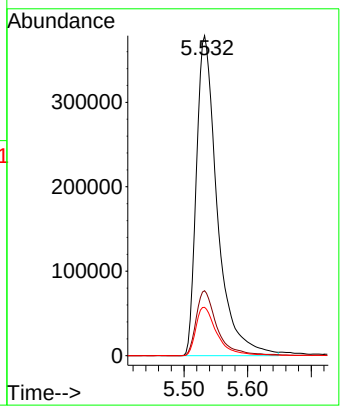


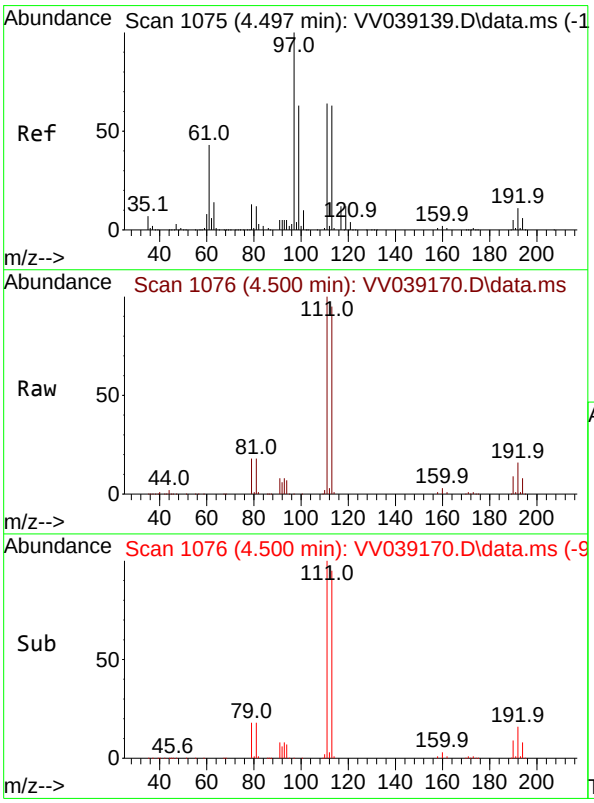
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Tgt Ion:114 Resp: 864912

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	15.1	0.0	30.8

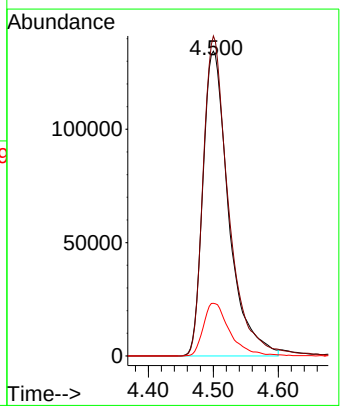


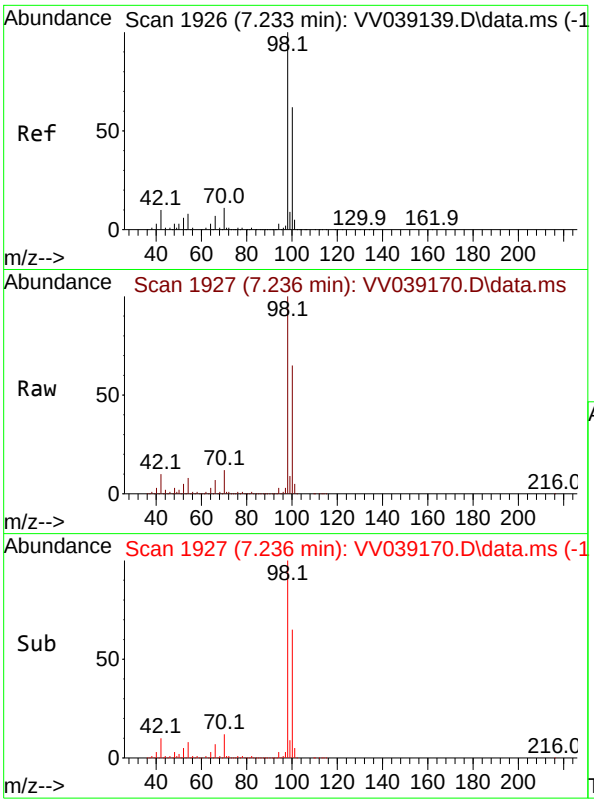


#35
Dibromofluoromethane
Concen: 53.273 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion:113 Resp: 370419

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.4	123.6
192	17.8	13.8	20.8



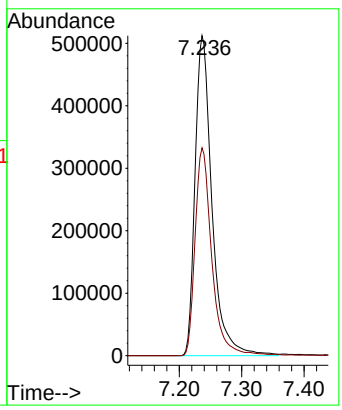


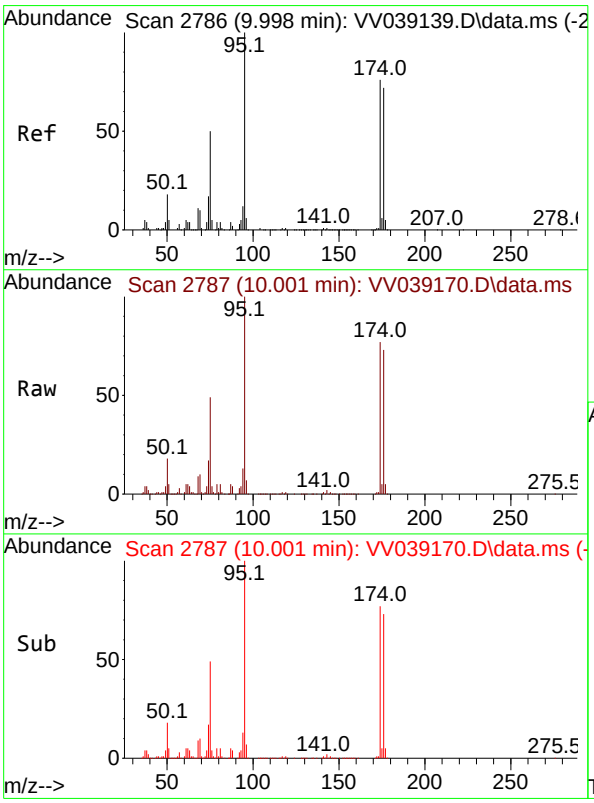
#50
Toluene-d8
Concen: 47.302 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Tgt Ion: 98 Resp: 965988

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.2	78.2

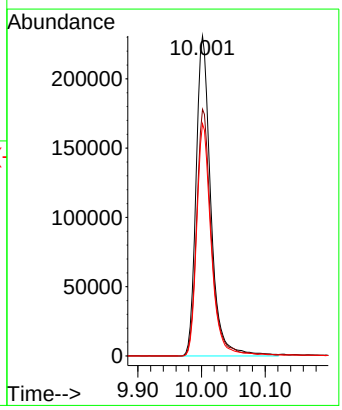


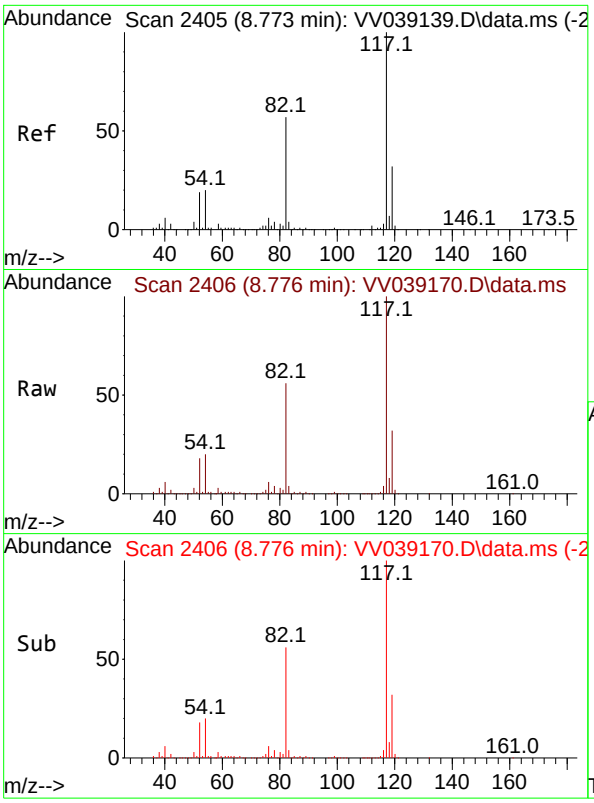


#62
4-Bromofluorobenzene
Concen: 44.133 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 95 Resp: 371030

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	150.4
176	71.4	0.0	144.2



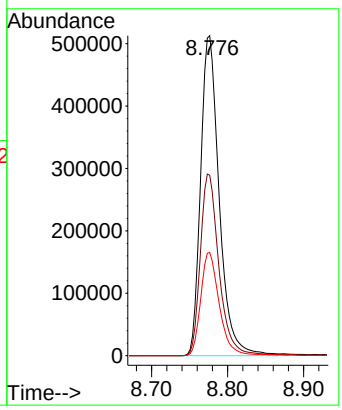


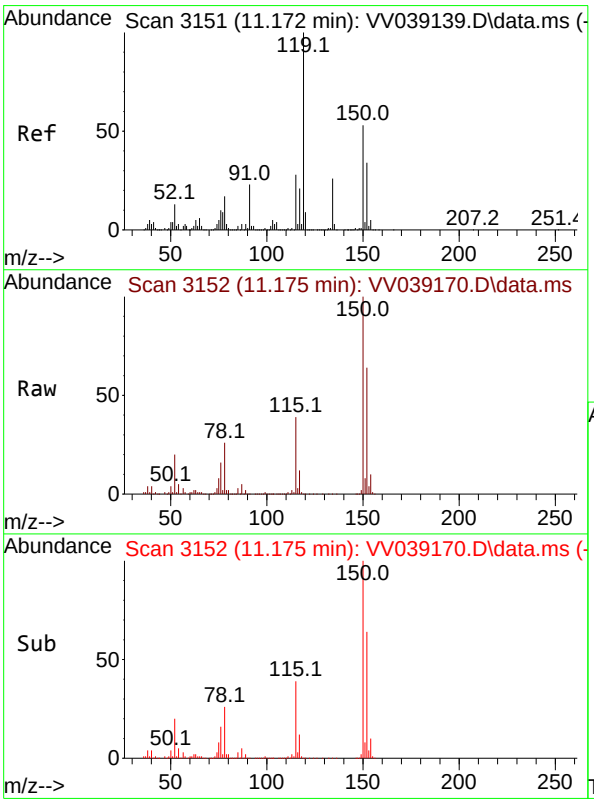
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Tgt Ion:117 Resp: 870930

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.4	68.2
119	32.3	25.6	38.4

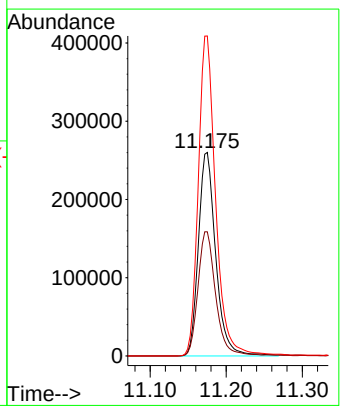




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion:152 Resp: 413592

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.8	134.4
150	158.0	0.0	353.8



Sample Results: **VV039170.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039170.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.500	1060	1076	1095	rBV	443480	1175595	44.03%	7.554%
2	4.597	1095	1106	1148	rVB	568175	1566147	58.66%	10.064%
3	4.941	1200	1213	1243	rBV	475406	1163011	43.56%	7.473%
4	5.532	1383	1397	1436	rBV	887588	2082143	77.99%	13.379%
5	7.236	1916	1927	1970	rBV	1332205	2555376	95.72%	16.420%
6	8.773	2395	2405	2437	rBV	1535667	2669706	100.00%	17.155%
7	10.001	2776	2787	2816	rBV	1114083	1822624	68.27%	11.712%
8	11.172	3140	3151	3183	rBV	1569081	2527734	94.68%	16.243%

Sum of corrected areas: 15562336

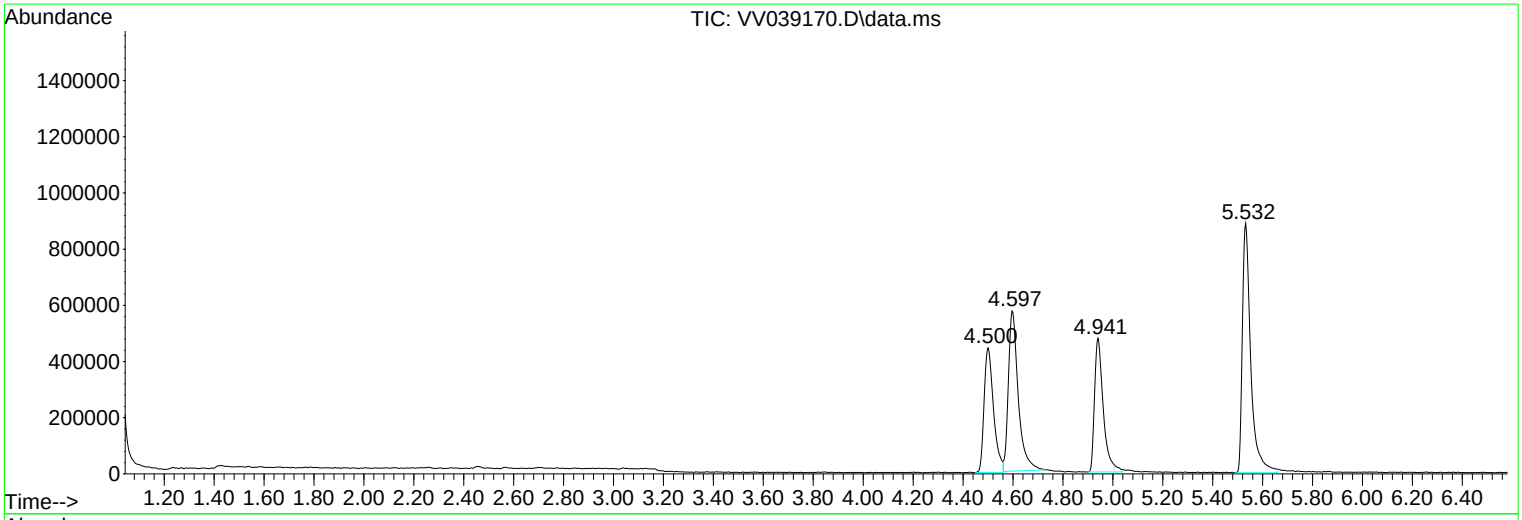
Sample Results: **VV039170.D**

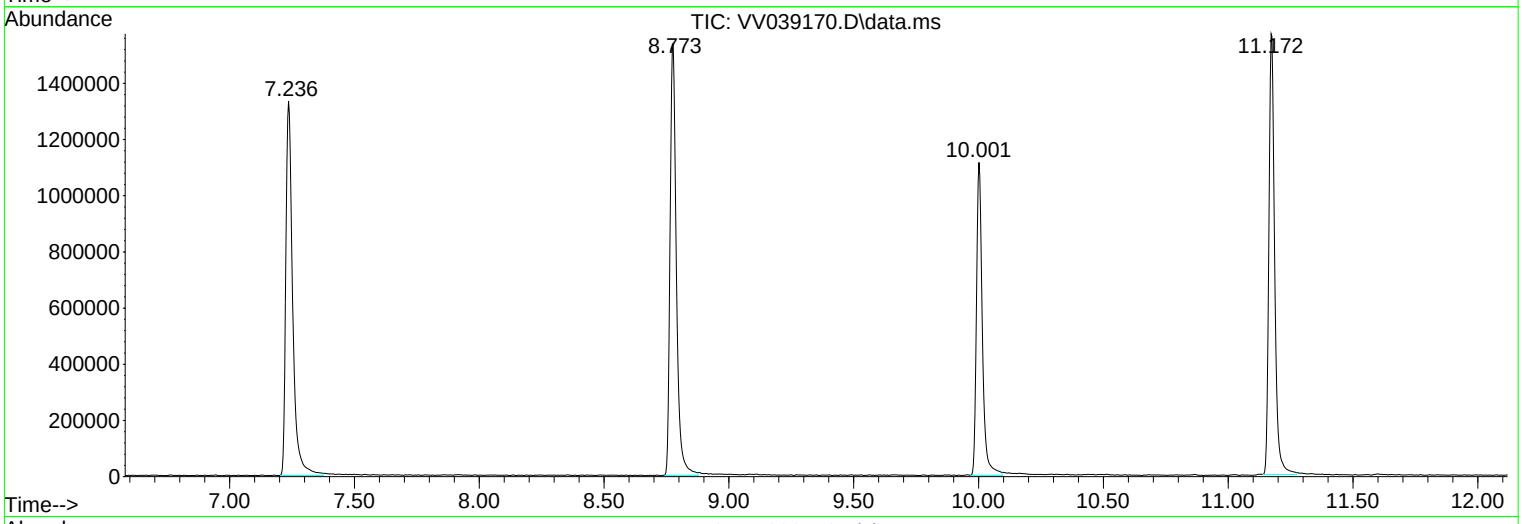
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

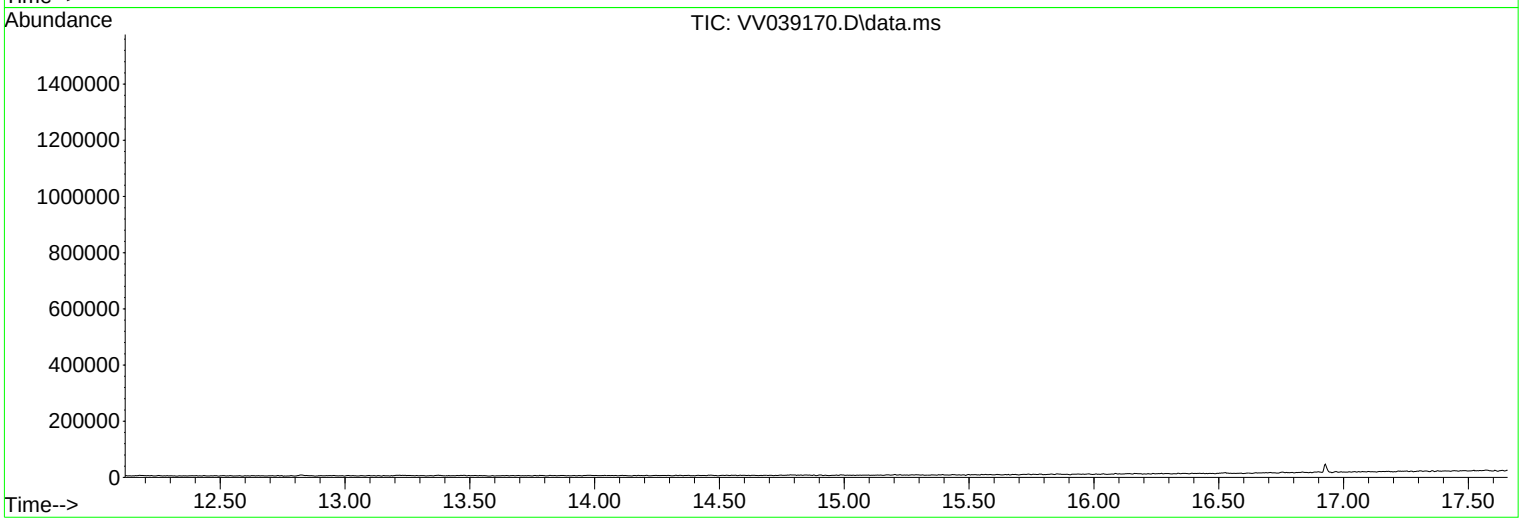
Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0926WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0926WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039200.D	1	09/26/25 10:23	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0926WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0926WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039200.D	1	09/26/25 10:23	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.4		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	46.3		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	489000	4.6			
540-36-3	1,4-Difluorobenzene	871000	5.535			
3114-55-4	Chlorobenzene-d5	871000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	422000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0926WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0926WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039200.D	1	09/26/25 10:23	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Quant Time: Sep 27 02:50:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	488972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	870889	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	870759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	422120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	399373	56.433	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 112.860%			
35) Dibromofluoromethane	4.503	113	357344	51.040	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 102.080%			
50) Toluene-d8	7.236	98	952055	46.300	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.600%			
62) 4-Bromofluorobenzene	10.001	95	387045	45.722	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 91.440%			

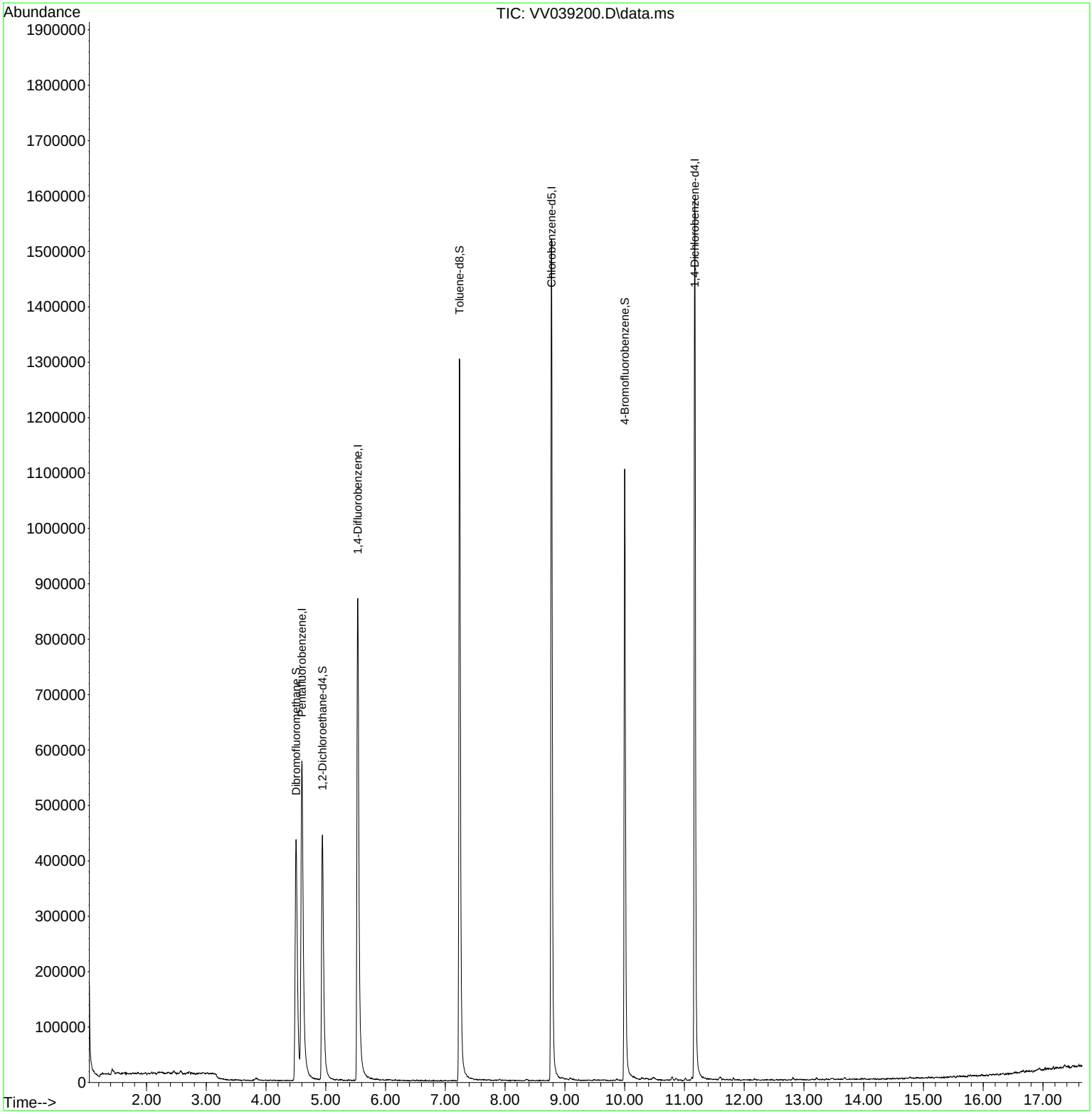
Target Compounds Qvalue

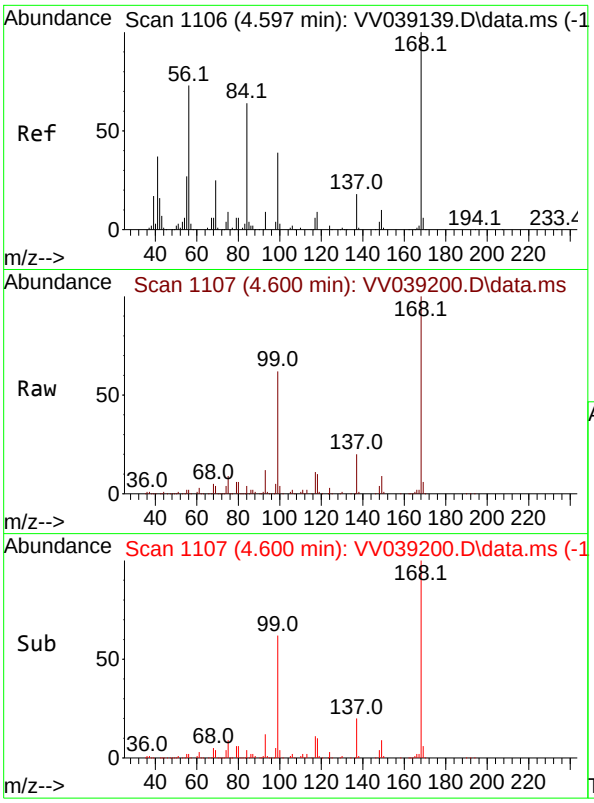
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Quant Time: Sep 27 02:50:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



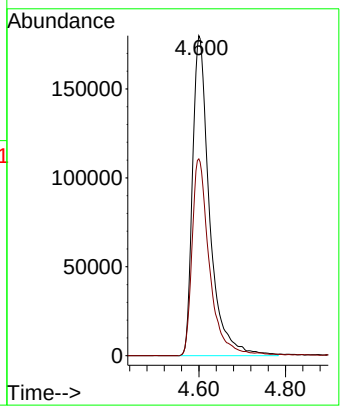


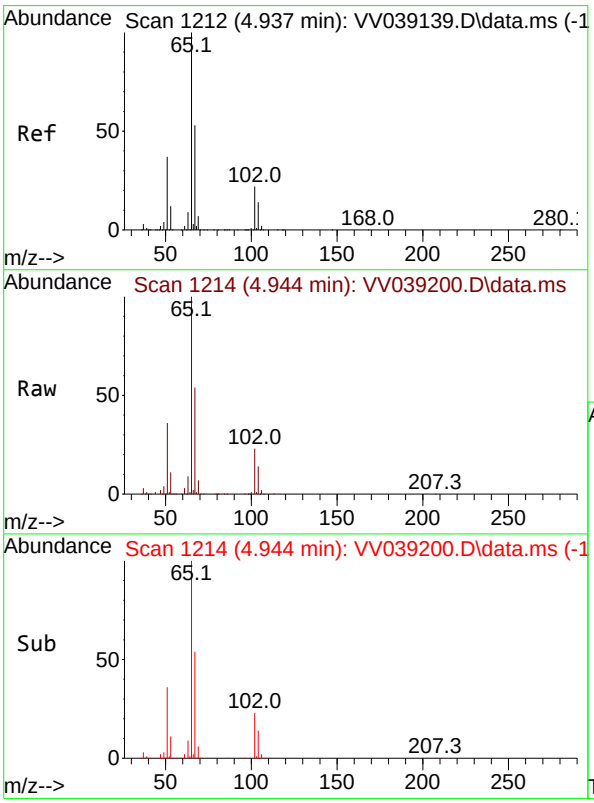
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Tgt Ion:168 Resp: 488972

Ion	Ratio	Lower	Upper
168	100		
99	61.5	49.6	74.4

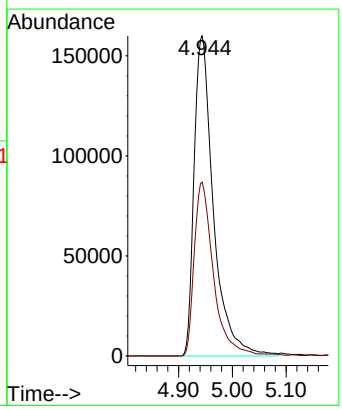


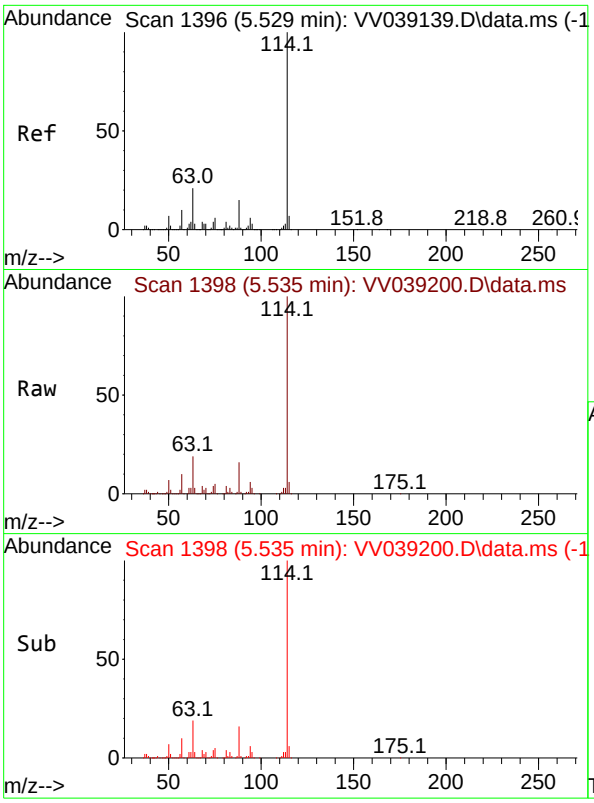


#33
1,2-Dichloroethane-d4
Concen: 56.433 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 65 Resp: 399373

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	107.0



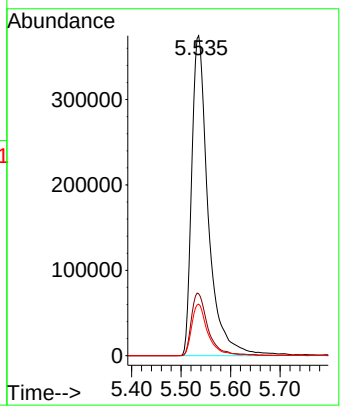


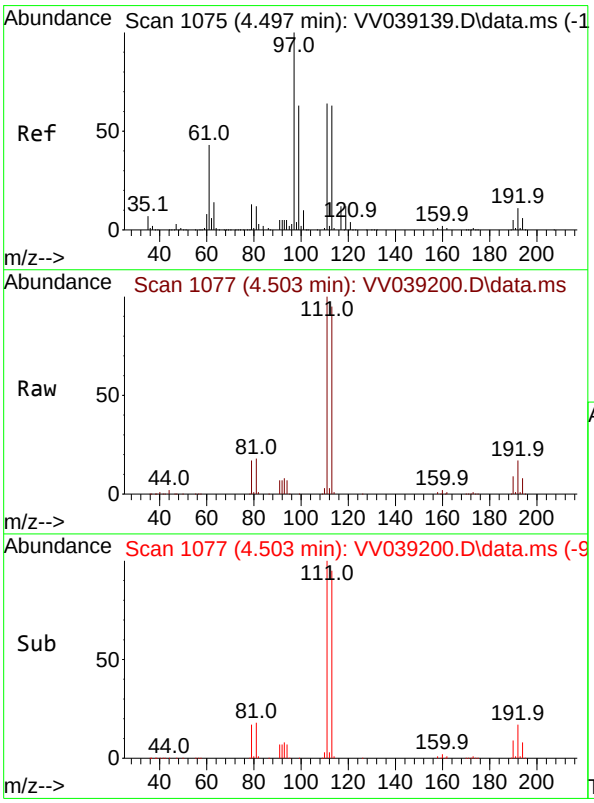
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Tgt Ion:114 Resp: 870889

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	42.6
88	16.1	0.0	30.8

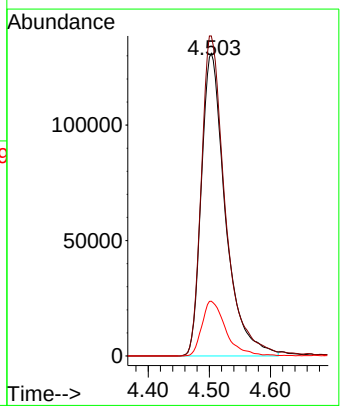


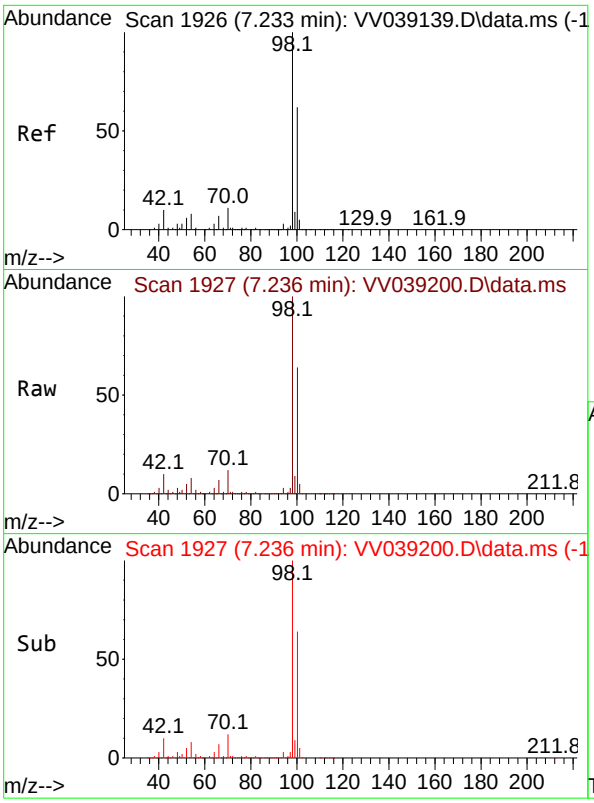


#35
Dibromofluoromethane
Concen: 51.040 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion:113 Resp: 357344

Ion	Ratio	Lower	Upper
113	100		
111	105.6	82.4	123.6
192	17.9	13.8	20.8



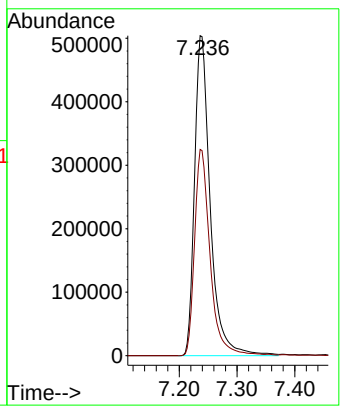


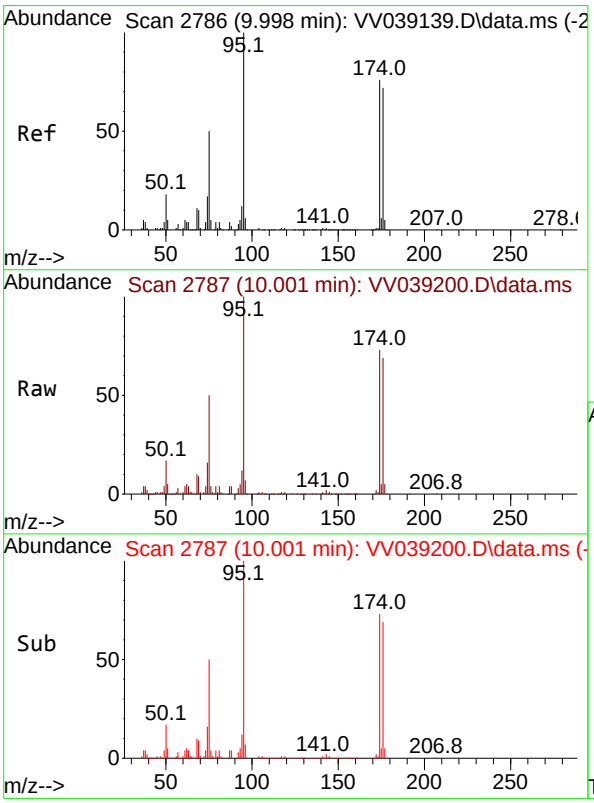
#50
Toluene-d8
Concen: 46.300 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Tgt Ion: 98 Resp: 952055

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.2	78.2

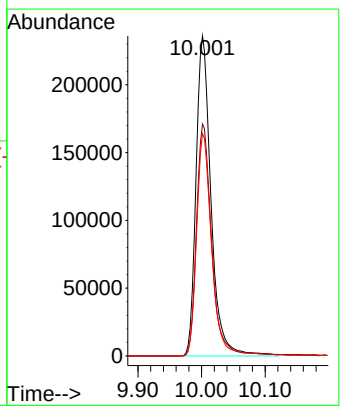


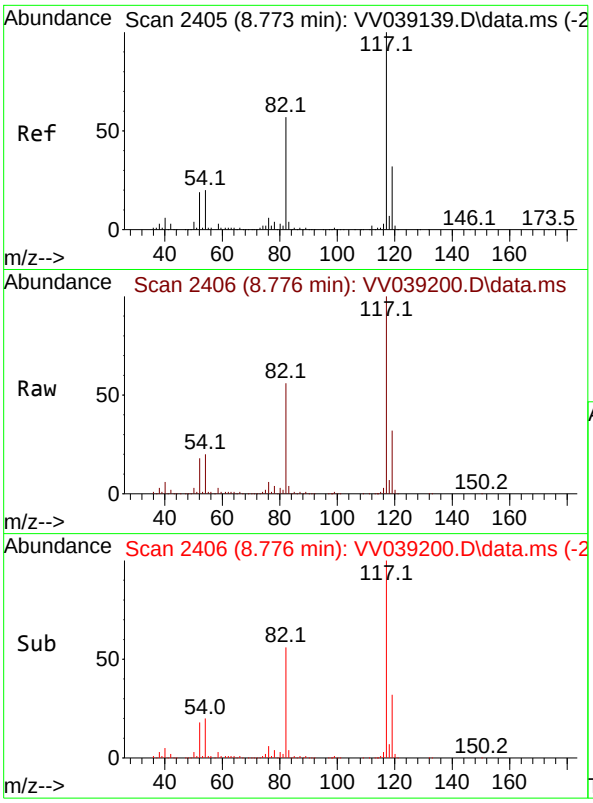


#62
4-Bromofluorobenzene
Concen: 45.722 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 95 Resp: 387045

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	150.4
176	69.0	0.0	144.2



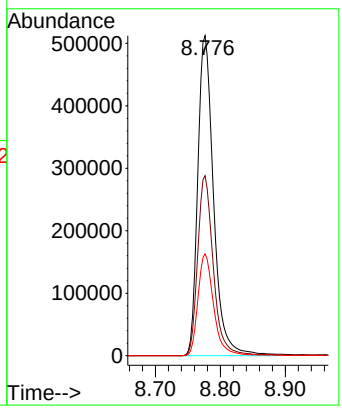


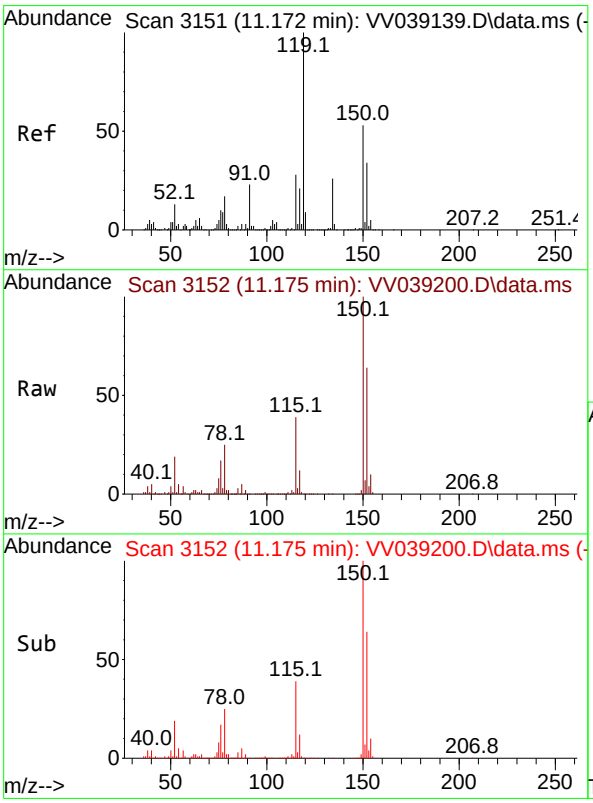
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Tgt Ion:117 Resp: 870759

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.4	68.2
119	31.8	25.6	38.4

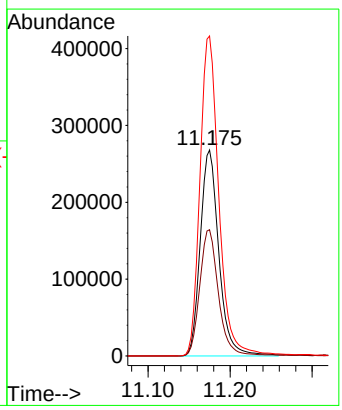




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion:152 Resp: 422120

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.8	134.4
150	158.3	0.0	353.8



Sample Results: **VV039200.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039200.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.503	1063	1077	1095	rBV	434773	1131685	43.35%	7.389%
2	4.600	1096	1107	1151	rVB	571098	1565650	59.97%	10.222%
3	4.944	1202	1214	1254	rBV2	440916	1100042	42.13%	7.182%
4	5.535	1381	1398	1430	rBV	870943	2033686	77.90%	13.278%
5	7.236	1913	1927	1968	rBV	1303748	2493630	95.51%	16.281%
6	8.776	2392	2406	2441	rBV	1518920	2610787	100.00%	17.046%
7	10.001	2776	2787	2814	rBV	1103168	1820878	69.74%	11.888%
8	11.175	3141	3152	3188	rBV	1587867	2560016	98.06%	16.714%

Sum of corrected areas: 15316374

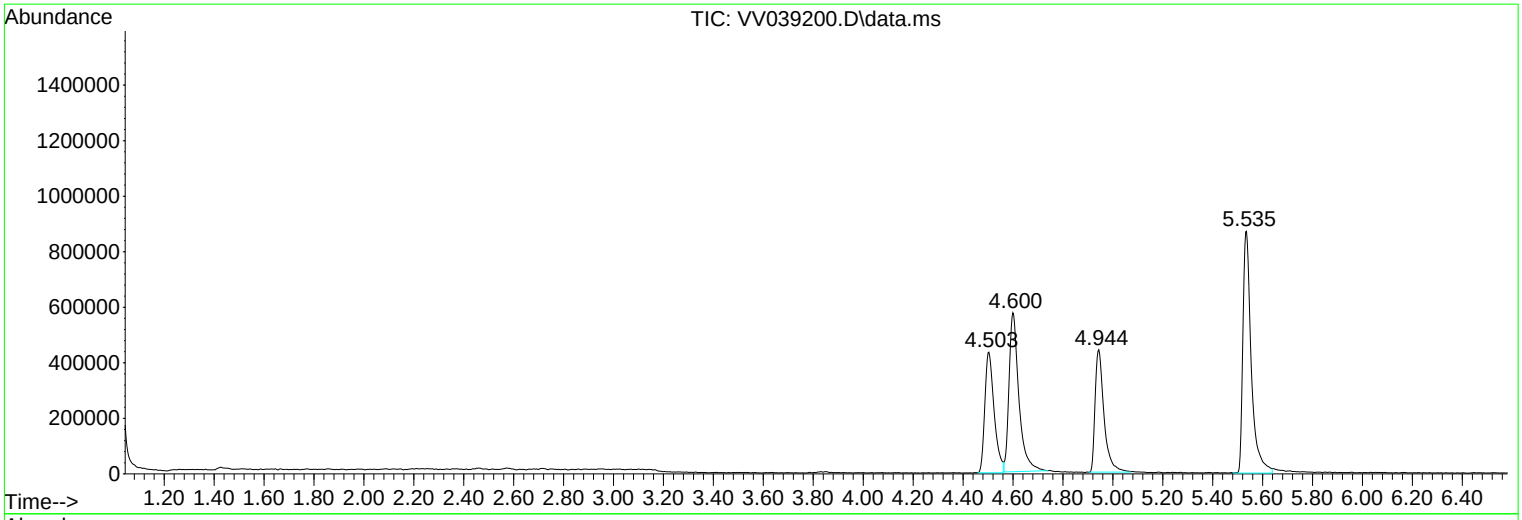
Sample Results: **VV039200.D**

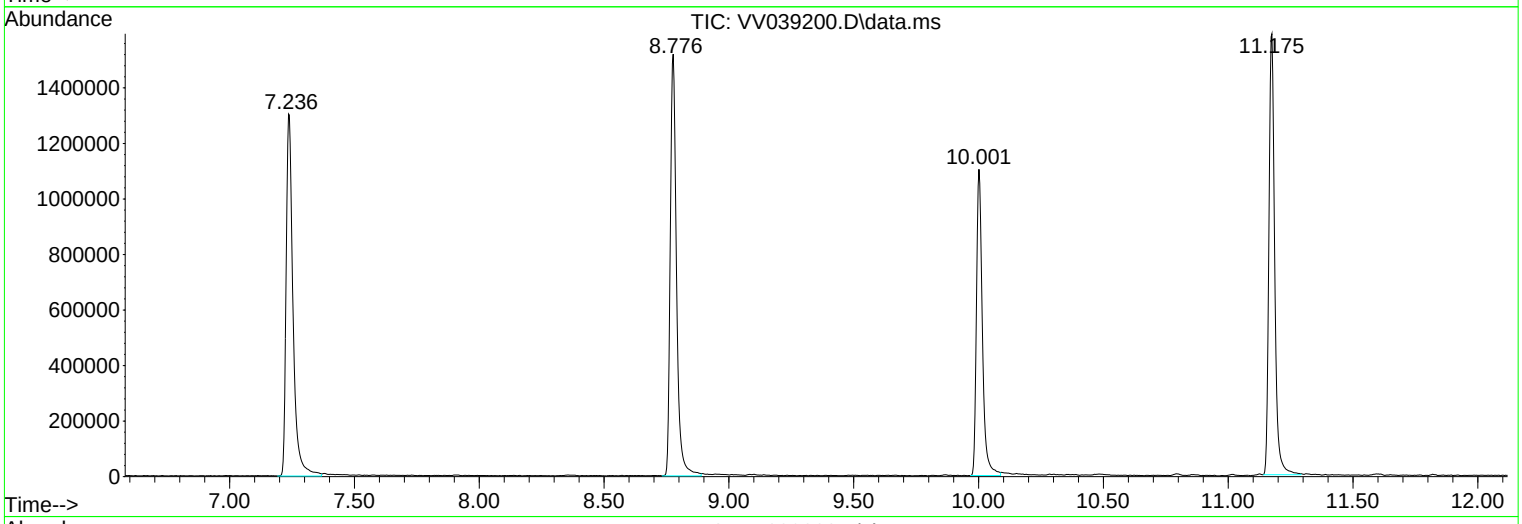
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

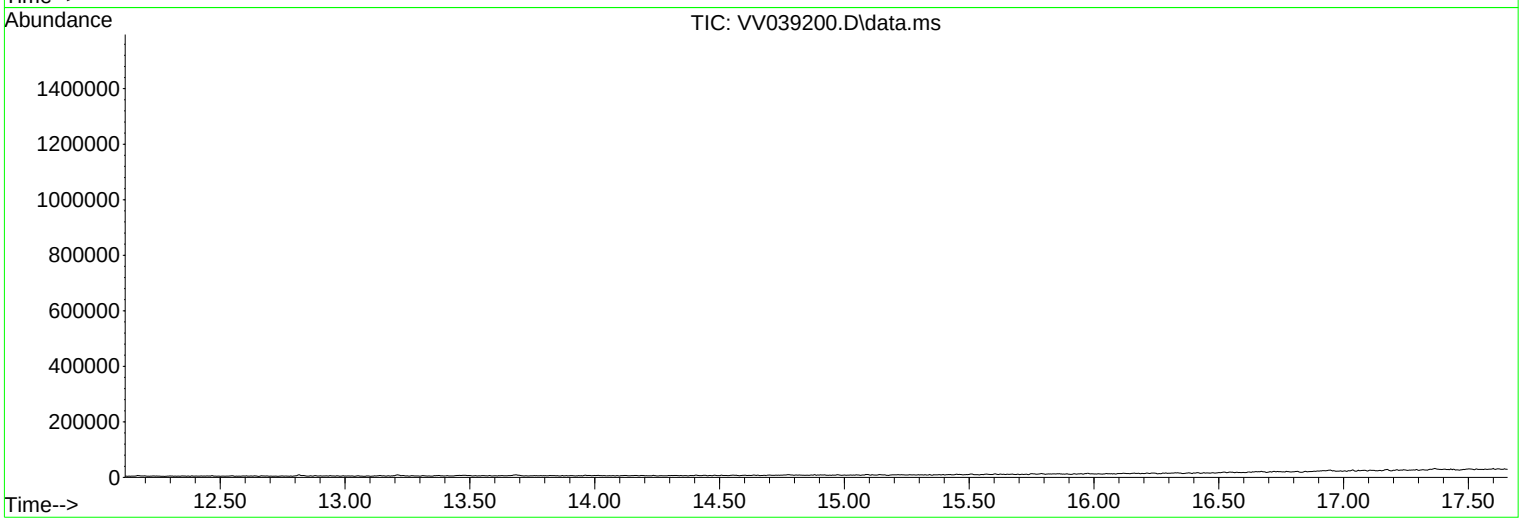
Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0929WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0929WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039223.D	1	09/29/25 12:00	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0929WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0929WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039223.D	1	09/29/25 12:00	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.8		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	45.7		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	464000	4.6			
540-36-3	1,4-Difluorobenzene	798000	5.535			
3114-55-4	Chlorobenzene-d5	810000	8.777			
3855-82-1	1,4-Dichlorobenzene-d4	404000	11.175			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0929WBL01	SDG No.:	Q3195
Lab Sample ID:	VV0929WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039223.D	1	09/29/25 12:00	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Quant Time: Sep 30 01:22:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	463653	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	797576	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.777	117	809645	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	403956	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	367686	54.793	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 109.580%			
35) Dibromofluoromethane	4.503	113	349442	54.499	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 109.000%			
50) Toluene-d8	7.240	98	860432	45.691	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.380%			
62) 4-Bromofluorobenzene	10.002	95	353180	45.557	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 91.120%			

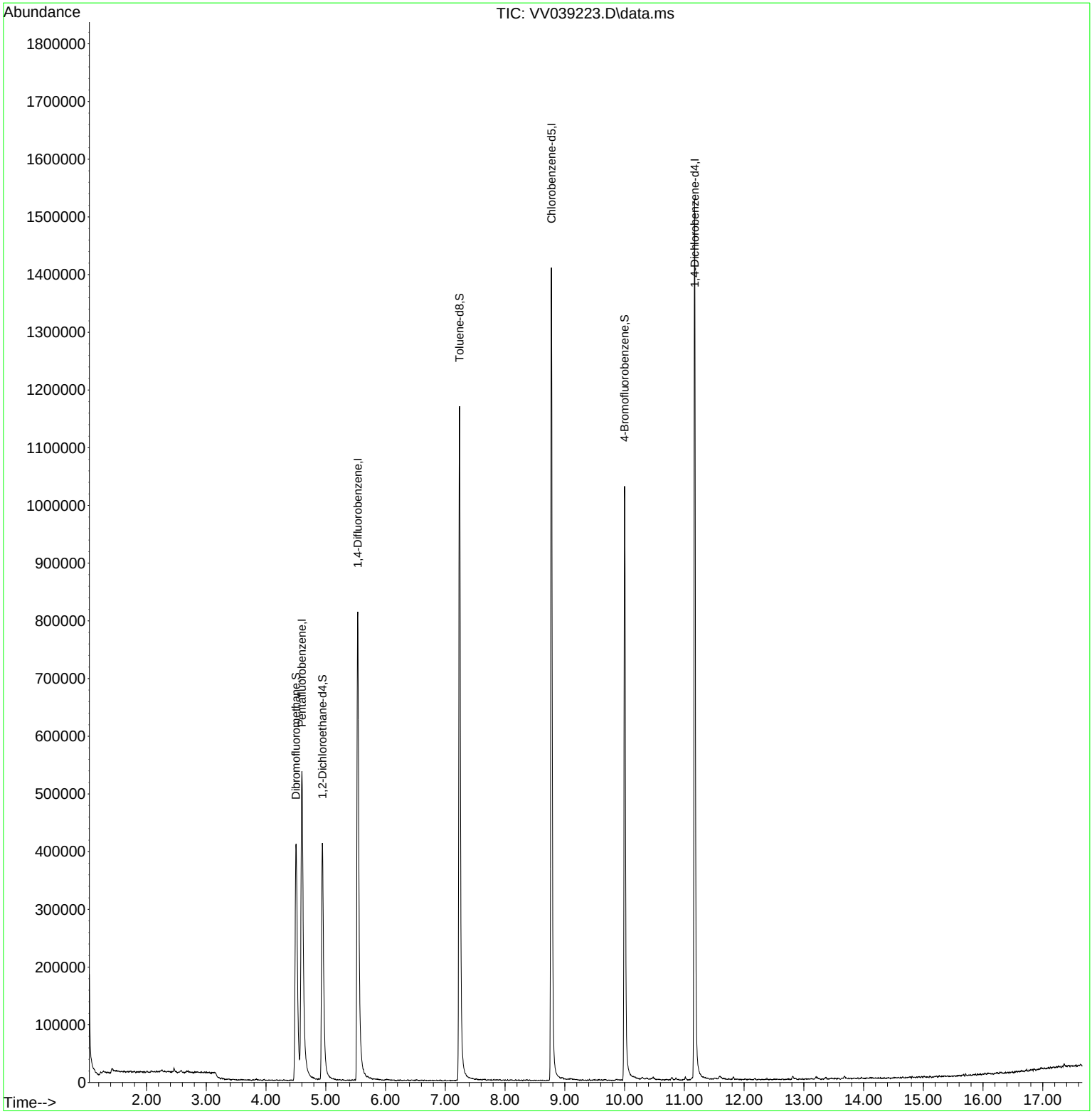
Target Compounds Qvalue

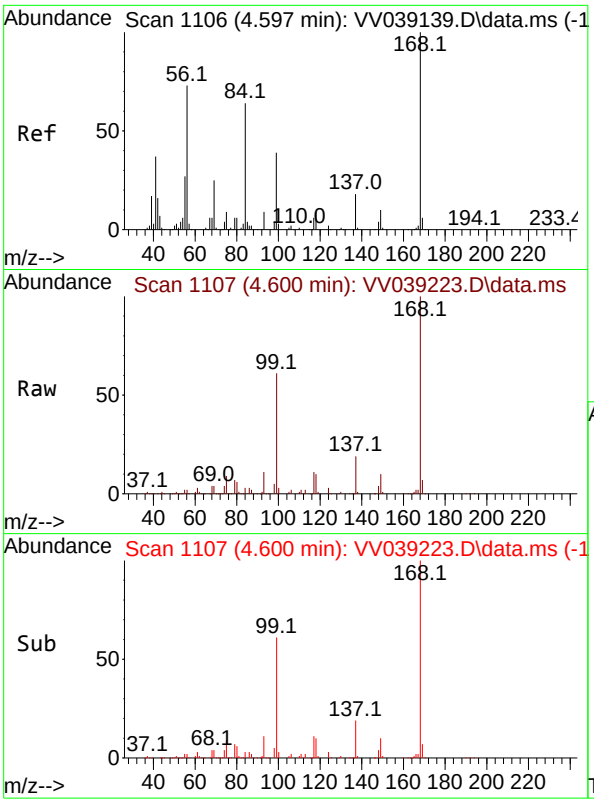
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Quant Time: Sep 30 01:22:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



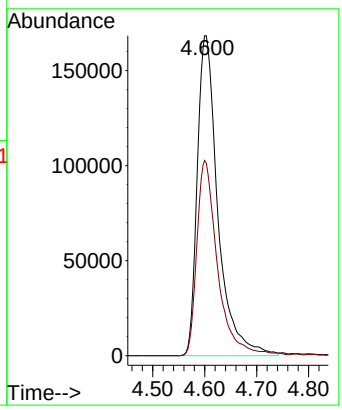


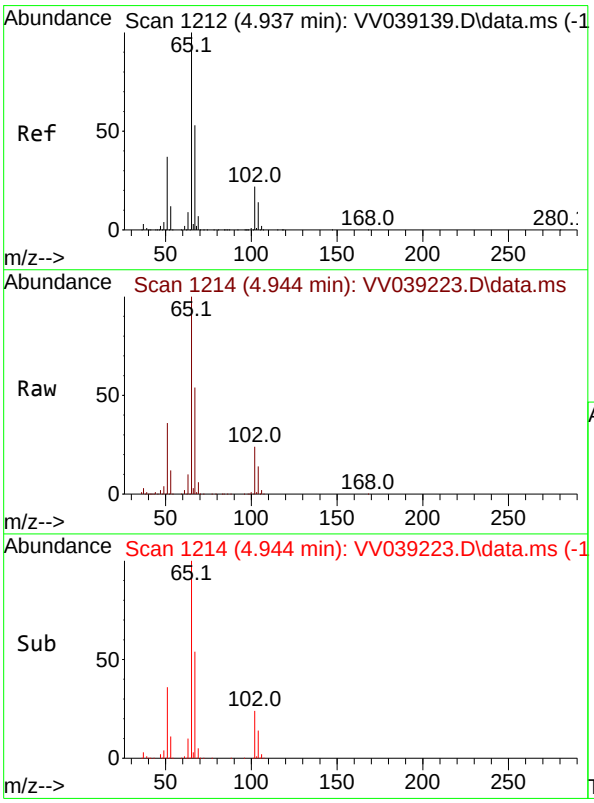
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Tgt Ion:168 Resp: 463653

Ion	Ratio	Lower	Upper
168	100		
99	61.0	49.6	74.4

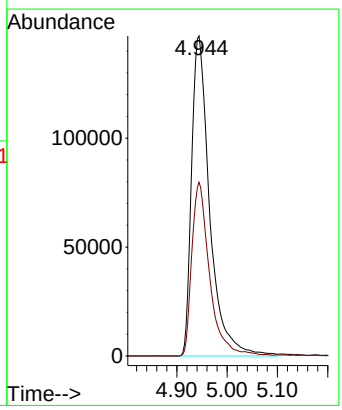


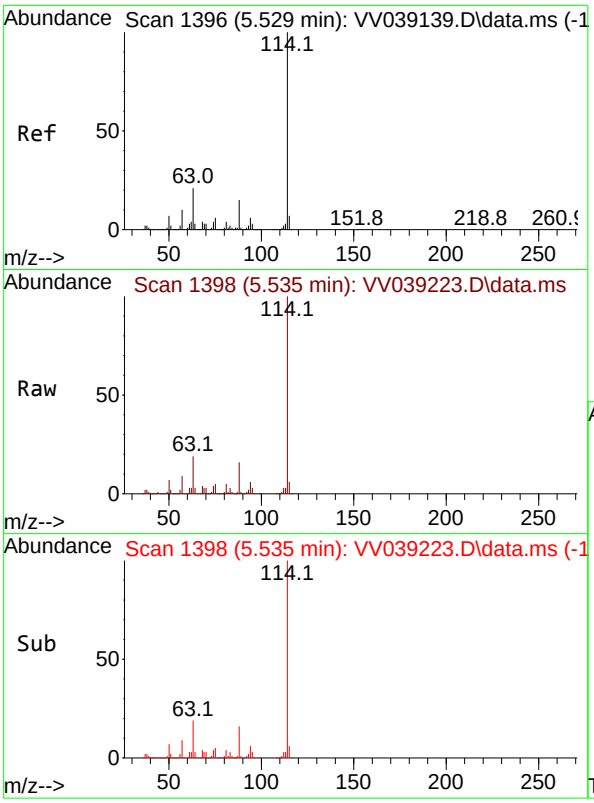


#33
1,2-Dichloroethane-d4
Concen: 54.793 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.007 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion: 65 Resp: 367686

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	107.0



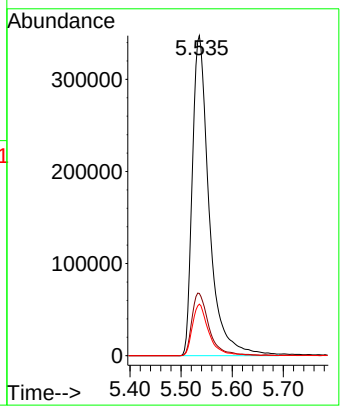


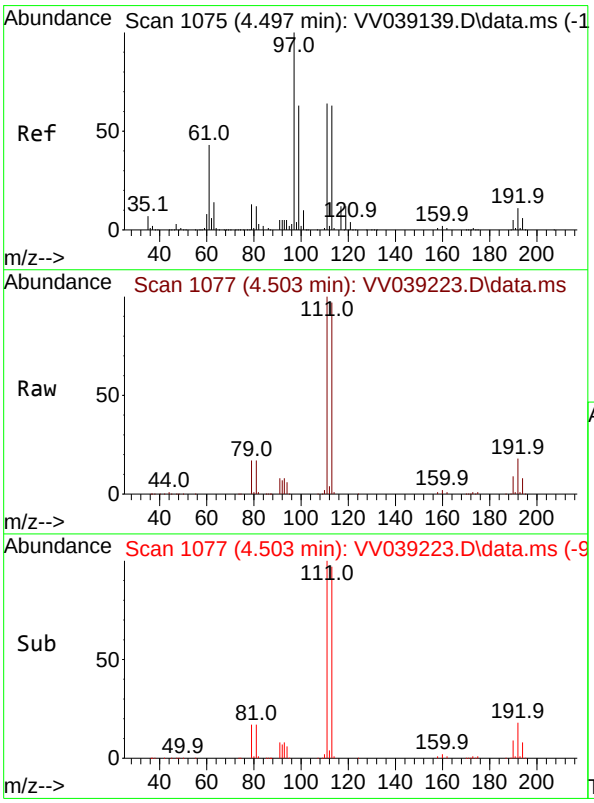
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Tgt Ion:114 Resp: 797576

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.6
88	16.1	0.0	30.8

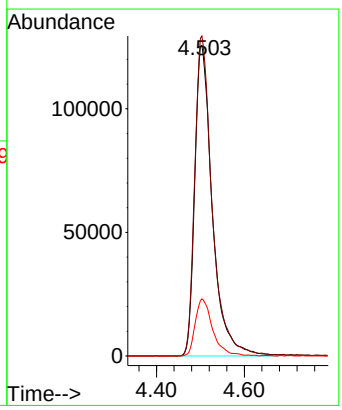


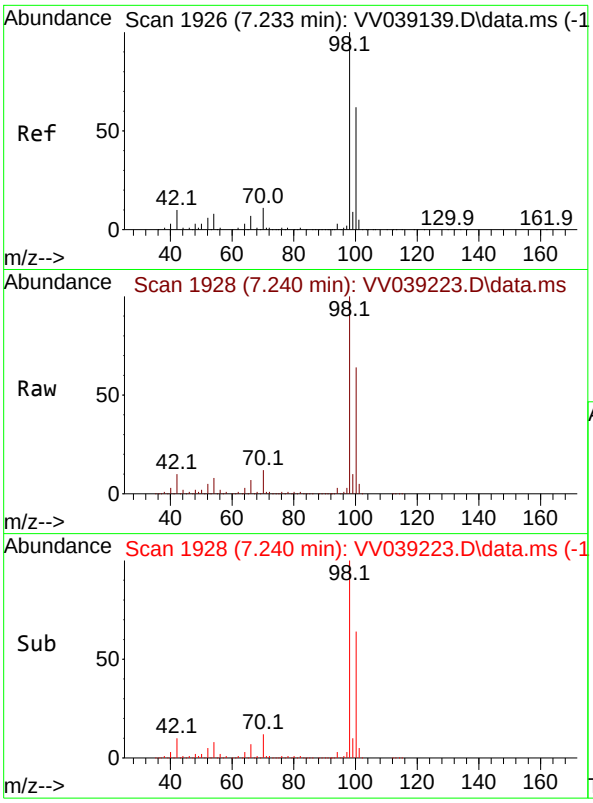


#35
Dibromofluoromethane
Concen: 54.499 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.007 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion:113 Resp: 349442

Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.4	123.6
192	18.1	13.8	20.8



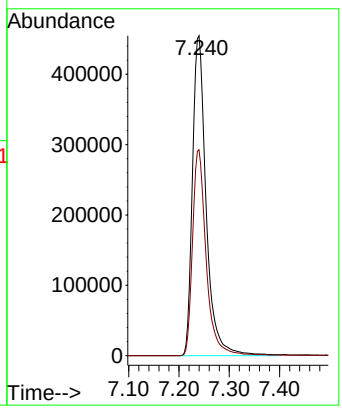


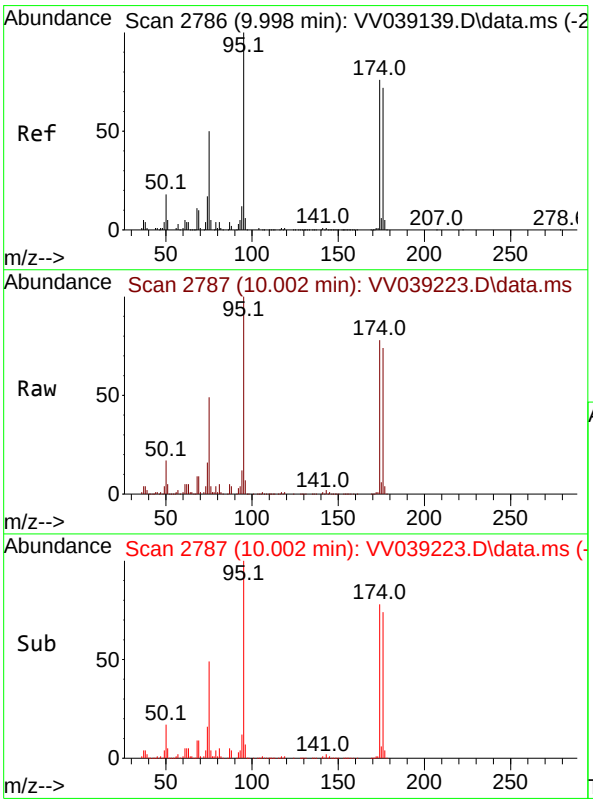
#50
Toluene-d8
Concen: 45.691 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.007 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Tgt Ion: 98 Resp: 860432

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.2	78.2

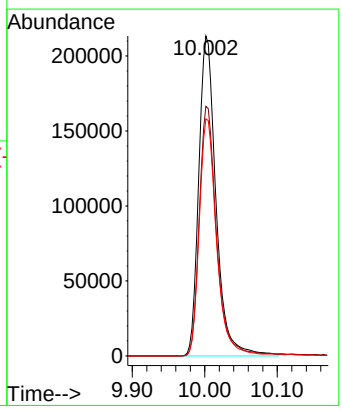


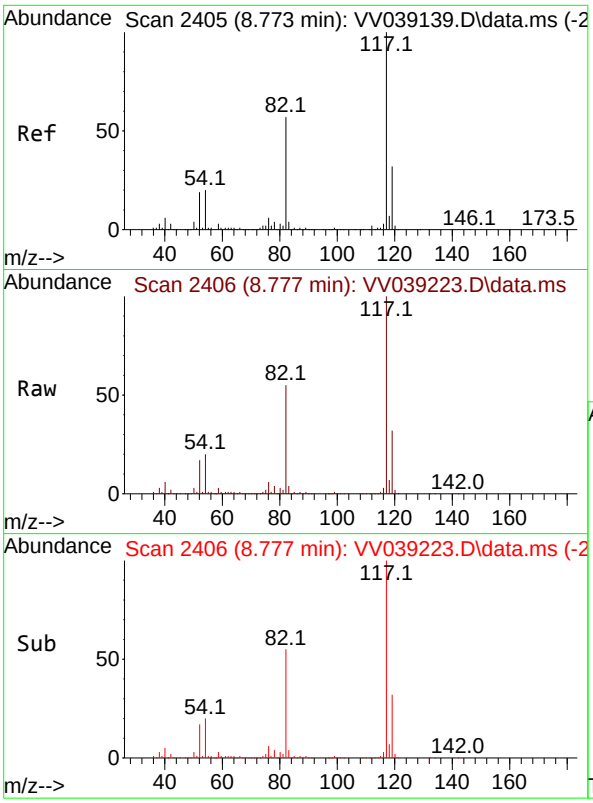


#62
4-Bromofluorobenzene
Concen: 45.557 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion: 95 Resp: 353180

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	150.4
176	73.8	0.0	144.2



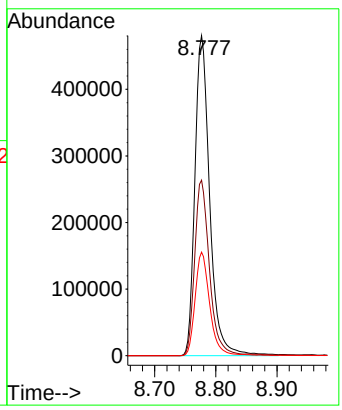


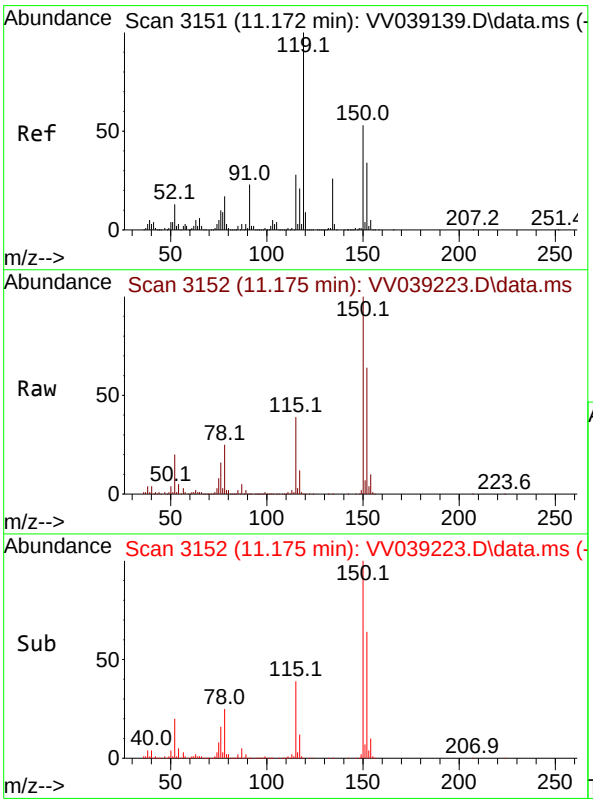
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 24
Delta R.T. 0.004 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Tgt Ion:117 Resp: 809645

Ion	Ratio	Lower	Upper
117	100		
82	54.8	45.4	68.2
119	32.4	25.6	38.4

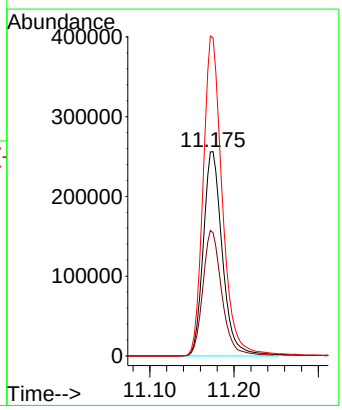




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion:152 Resp: 403956

Ion	Ratio	Lower	Upper
152	100		
115	61.1	44.8	134.4
150	157.7	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039223.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.503	1062	1077	1095	rBV2	409817	1085611	44.60%	7.620%
2	4.600	1096	1107	1150	rVB	529571	1466476	60.25%	10.294%
3	4.944	1202	1214	1248	rBV	409293	1014819	41.69%	7.123%
4	5.535	1386	1398	1426	rBV	812016	1857654	76.32%	13.040%
5	7.240	1916	1928	1963	rBV	1168368	2240542	92.05%	15.727%
6	8.777	2392	2406	2450	rBV	1408642	2418979	99.39%	16.980%
7	10.002	2776	2787	2817	rBV	1029718	1728299	71.01%	12.132%
8	11.172	3140	3151	3193	rBV	1523519	2433928	100.00%	17.085%

Sum of corrected areas: 14246308

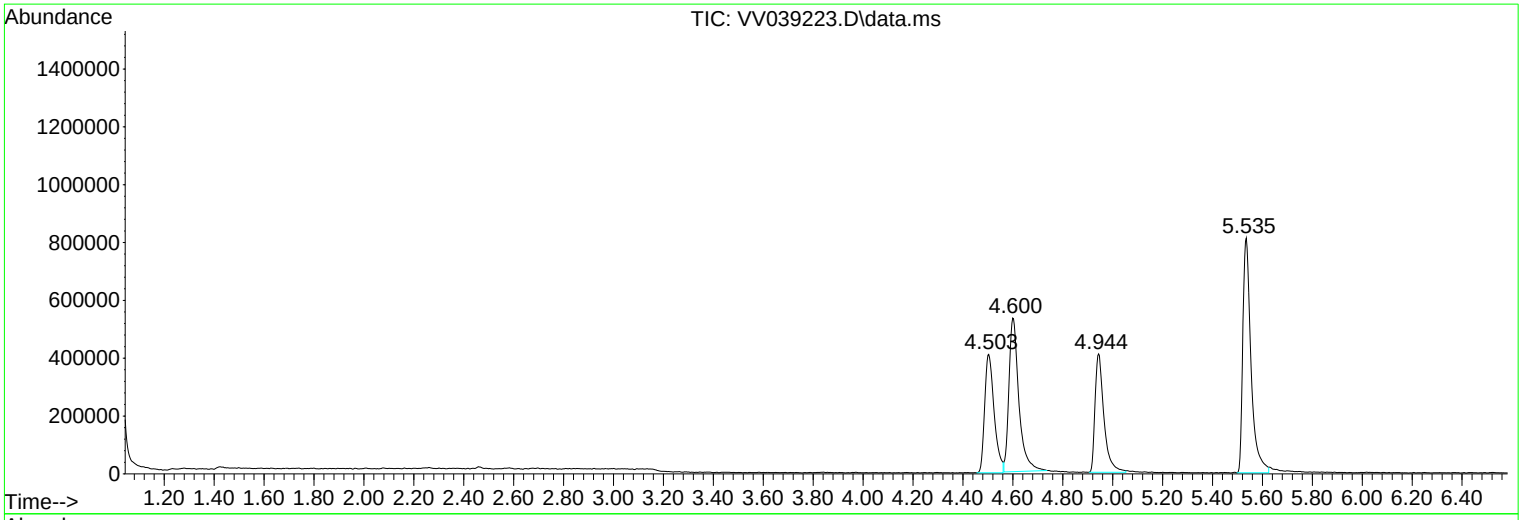
Sample Results: **VV039223.D**

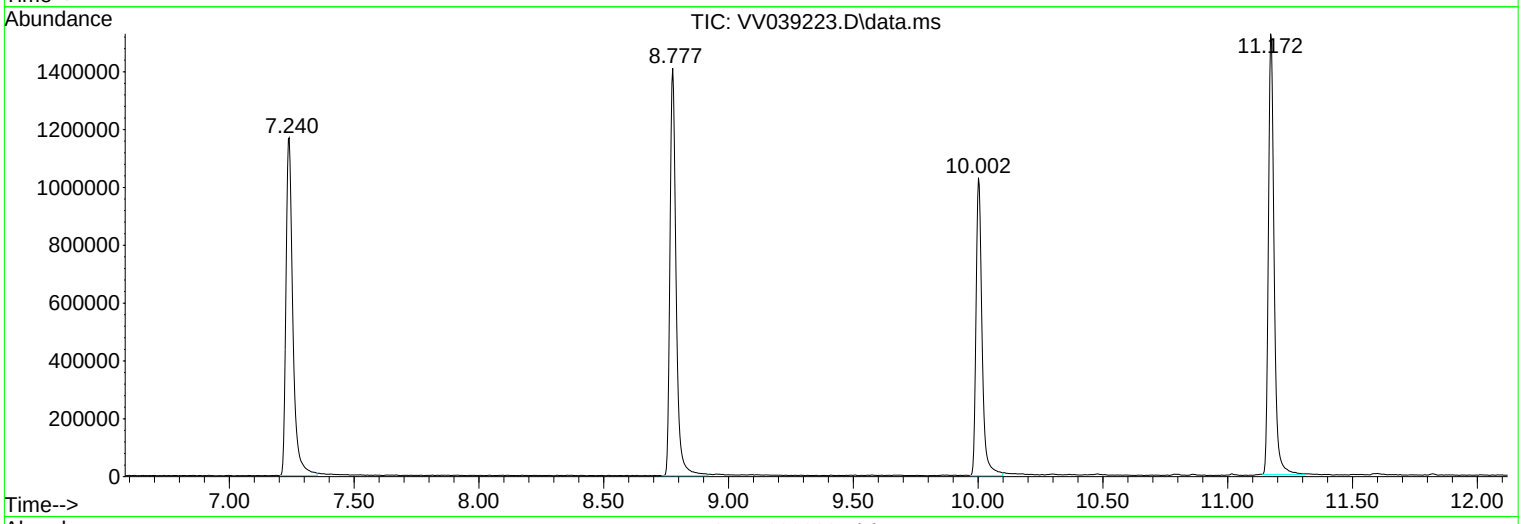
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

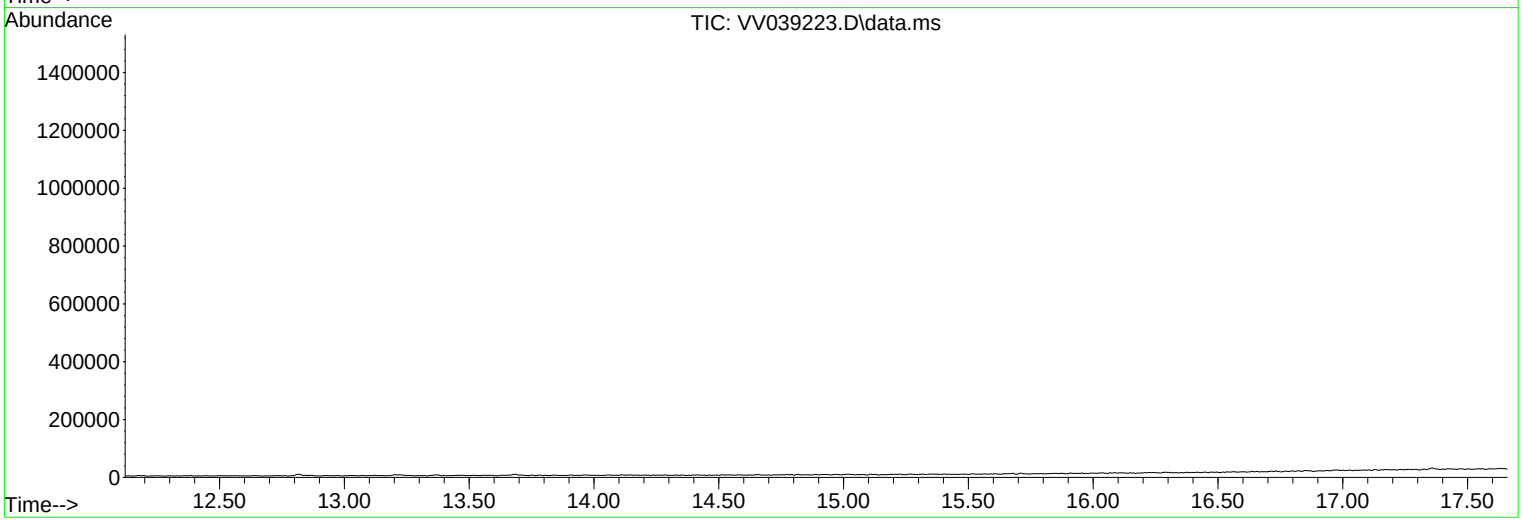
Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0925WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0925WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039171.D	1	09/25/25 11:24	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.2		0.22	1.00	ug/L
74-87-3	Chloromethane	19.1		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.4		0.26	1.00	ug/L
74-83-9	Bromomethane	18.7		1.40	5.00	ug/L
75-00-3	Chloroethane	19.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.9		0.23	1.00	ug/L
67-64-1	Acetone	89.0		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	19.0		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.2		0.27	1.00	ug/L
75-09-2	Methylene Chloride	20.6		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.7		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.2		1.50	5.00	ug/L
78-93-3	2-Butanone	97.1		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.22	1.00	ug/L
67-66-3	Chloroform	19.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.2		0.16	1.00	ug/L
71-43-2	Benzene	19.9		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.4		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	21.5		0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0925WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0925WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039171.D	1	09/25/25 11:24	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.2		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	1.00	ug/L
591-78-6	2-Hexanone	99.6		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	43.1		0.24	2.00	ug/L
95-47-6	o-Xylene	21.0		0.12	1.00	ug/L
100-42-5	Styrene	19.3		0.15	1.00	ug/L
75-25-2	Bromoform	20.5		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.6		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.9		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	22.1		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.2		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.9		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.1		74 - 125	90%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	47.9		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	557000	4.6			
540-36-3	1,4-Difluorobenzene	899000	5.535			
3114-55-4	Chlorobenzene-d5	872000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	509000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0925WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0925WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039171.D	1	09/25/25 11:24	VV092525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	557017	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	898902	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	871912	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	508947	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	363796	45.127	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 90.260%			
35) Dibromofluoromethane	4.500	113	345732	47.843	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 95.680%			
50) Toluene-d8	7.236	98	1017460	47.939	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 95.880%			
62) 4-Bromofluorobenzene	10.001	95	447073	51.168	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 102.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	160404	18.191	ug/l	99
3) Chloromethane	1.230	50	180629	19.082	ug/l	99
4) Vinyl Chloride	1.298	62	196152	19.356	ug/l	99
5) Bromomethane	1.497	94	119487	18.704	ug/l	98
6) Chloroethane	1.561	64	122694	19.279	ug/l	97
7) Trichlorofluoromethane	1.725	101	284580	19.396	ug/l	98
8) Diethyl Ether	1.918	74	106026	19.466	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	174658	20.007	ug/l	97
10) Methyl Iodide	2.198	142	135972	16.356	ug/l	99
11) Tert butyl alcohol	2.571	59	187721	110.174	ug/l	99
12) 1,1-Dichloroethene	2.082	96	166976	19.882	ug/l	98
13) Acrolein	2.011	56	34025	115.083	ug/l	98
14) Allyl chloride	2.359	41	286242	19.080	ug/l	98
15) Acrylonitrile	2.677	53	538540	98.597	ug/l	100
16) Acetone	2.121	43	476447	89.017	ug/l	97
17) Carbon Disulfide	2.253	76	487416	18.977	ug/l	99
18) Methyl Acetate	2.381	43	252836	21.167	ug/l	98
19) Methyl tert-butyl Ether	2.716	73	535106	19.995	ug/l	99
20) Methylene Chloride	2.458	84	192332	20.555	ug/l	95
21) trans-1,2-Dichloroethene	2.703	96	176159	19.703	ug/l	96
22) Diisopropyl ether	3.220	45	549959	19.161	ug/l	99
23) Vinyl Acetate	3.191	43	2415006	96.182	ug/l	98
24) 1,1-Dichloroethane	3.117	63	339160	19.322	ug/l	98
25) 2-Butanone	3.873	43	626977	97.122	ug/l	99
26) 2,2-Dichloropropane	3.812	77	266277	17.109	ug/l	98
27) cis-1,2-Dichloroethene	3.822	96	191963	19.468	ug/l	98
28) Bromochloromethane	4.150	49	158654	20.475	ug/l	97
29) Tetrahydrofuran	4.240	42	407358	100.814	ug/l	98
30) Chloroform	4.281	83	352541	19.234	ug/l	97
31) Cyclohexane	4.587	56	262018	18.223	ug/l	94
32) 1,1,1-Trichloroethane	4.513	97	301922	19.027	ug/l	98
36) 1,1-Dichloropropene	4.744	75	210259	19.244	ug/l	98
37) Ethyl Acetate	3.986	43	249892	18.849	ug/l	99
38) Carbon Tetrachloride	4.735	117	258780	19.380	ug/l	96
39) Methylcyclohexane	6.047	83	253234	19.193	ug/l	98
40) Benzene	5.011	78	706824	19.867	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.166	41	101017	18.119	ug/l		92
42) 1,2-Dichloroethane	5.043	62	243861	19.562	ug/l		99
43) Isopropyl Acetate	5.198	43	354785	19.627	ug/l		99
44) Trichloroethene	5.834	130	167082	20.352	ug/l		99
45) 1,2-Dichloropropane	6.092	63	181382	20.511	ug/l		96
46) Dibromomethane	6.227	93	135579	20.031	ug/l		98
47) Bromodichloromethane	6.429	83	269985	19.295	ug/l		100
48) Methyl methacrylate	6.301	41	154615	18.869	ug/l		97
49) 1,4-Dioxane	6.294	88	55817	422.109	ug/l		98
51) 4-Methyl-2-Pentanone	7.149	43	1295291	108.921	ug/l		99
52) Toluene	7.310	92	442966	21.474	ug/l		98
53) t-1,3-Dichloropropene	7.577	75	244520	20.052	ug/l		99
54) cis-1,3-Dichloropropene	6.950	75	272587	20.249	ug/l		98
55) 1,1,2-Trichloroethane	7.764	97	184964	19.997	ug/l		95
56) Ethyl methacrylate	7.719	69	220741	20.096	ug/l		97
57) 1,3-Dichloropropane	7.937	76	293432	20.102	ug/l		99
58) 2-Chloroethyl Vinyl ether	6.815	63	541689	93.599	ug/l		99
59) 2-Hexanone	8.066	43	942254	99.572	ug/l		99
60) Dibromochloromethane	8.169	129	212792	20.190	ug/l		100
61) 1,2-Dibromoethane	8.275	107	195149	20.631	ug/l		99
64) Tetrachloroethene	7.899	164	147205	20.157	ug/l		95
65) Chlorobenzene	8.805	112	488359	20.108	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.899	131	174648	19.902	ug/l		100
67) Ethyl Benzene	8.937	91	736424	20.032	ug/l		99
68) m/p-Xylenes	9.063	106	611502	43.097	ug/l		100
69) o-Xylene	9.468	106	263271	20.955	ug/l		99
70) Styrene	9.487	104	489732	19.311	ug/l		99
71) Bromoform	9.654	173	140287	20.466	ug/l	#	98
73) Isopropylbenzene	9.857	105	759505	20.575	ug/l		100
74) N-amyl acetate	9.725	43	297254	20.188	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.165	83	313809	19.402	ug/l		100
76) 1,2,3-Trichloropropane	10.198	75	227880	19.665	ug/l		98
77) Bromobenzene	10.143	156	194148	20.272	ug/l		97
78) n-propylbenzene	10.278	91	917928	20.420	ug/l		99
79) 2-Chlorotoluene	10.349	91	569887	21.187	ug/l		98
80) 1,3,5-Trimethylbenzene	10.464	105	649406	21.165	ug/l		100
81) trans-1,4-Dichloro-2-b...	9.931	75	93631	19.398	ug/l		98
82) 4-Chlorotoluene	10.464	91	658860	21.124	ug/l		100
83) tert-Butylbenzene	10.789	119	599275	19.587	ug/l		99
84) 1,2,4-Trimethylbenzene	10.841	105	634517	21.301	ug/l		100
85) sec-Butylbenzene	11.014	105	814764	20.078	ug/l		99
86) p-Isopropyltoluene	11.169	119	692579	20.505	ug/l		99
87) 1,3-Dichlorobenzene	11.108	146	380476	19.629	ug/l		100
88) 1,4-Dichlorobenzene	11.198	146	400938	18.854	ug/l		99
89) n-Butylbenzene	11.580	91	629906	19.528	ug/l		98
90) Hexachloroethane	11.821	117	153004	18.396	ug/l		99
91) 1,2-Dichlorobenzene	11.567	146	359391	19.846	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.352	75	63577	22.105	ug/l		98
93) 1,2,4-Trichlorobenzene	13.185	180	198844	19.155	ug/l		98
94) Hexachlorobutadiene	13.368	225	100713	18.672	ug/l		99
95) Naphthalene	13.426	128	654241	19.499	ug/l		99
96) 1,2,3-Trichlorobenzene	13.667	180	210809	19.856	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

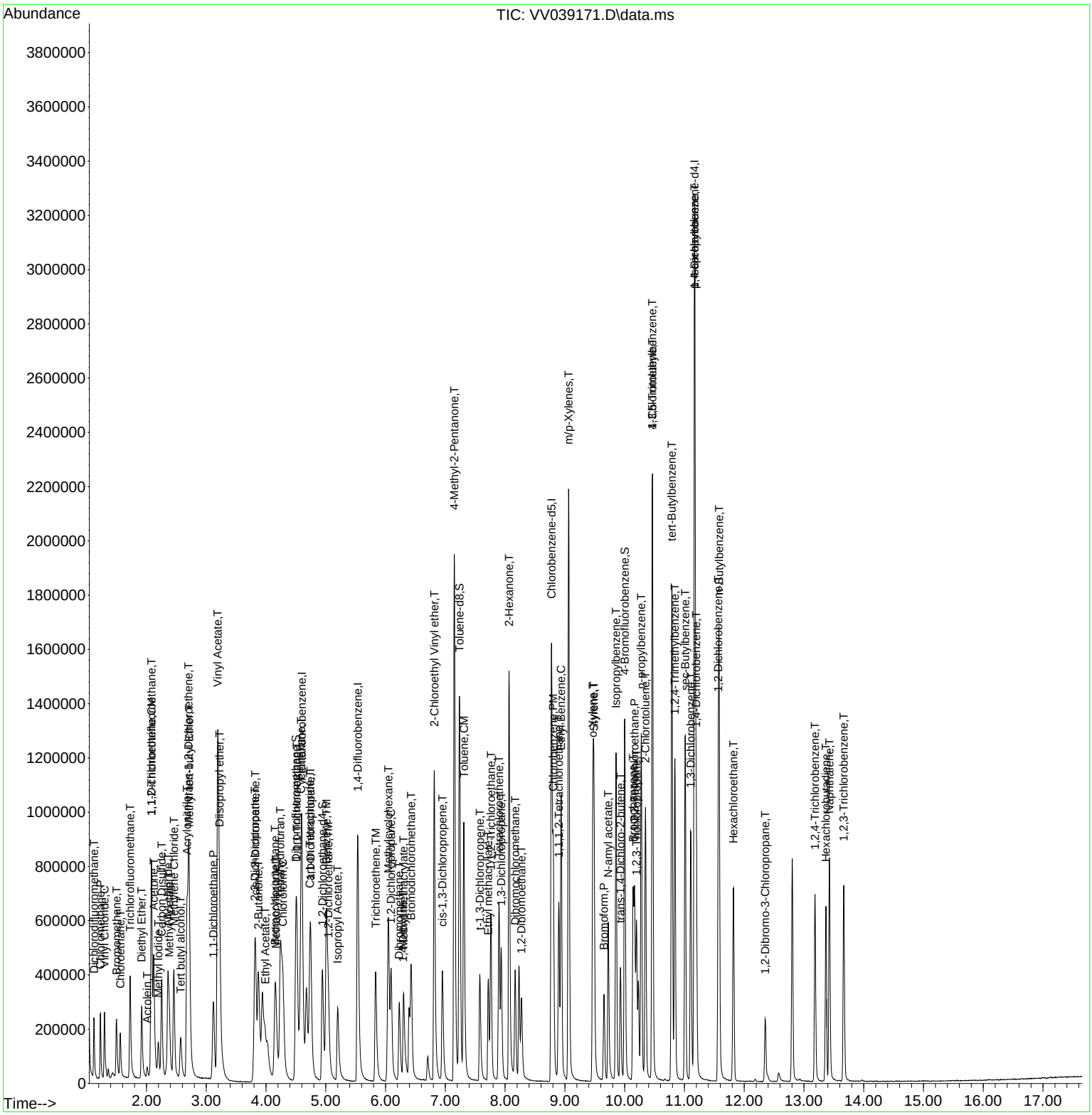
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

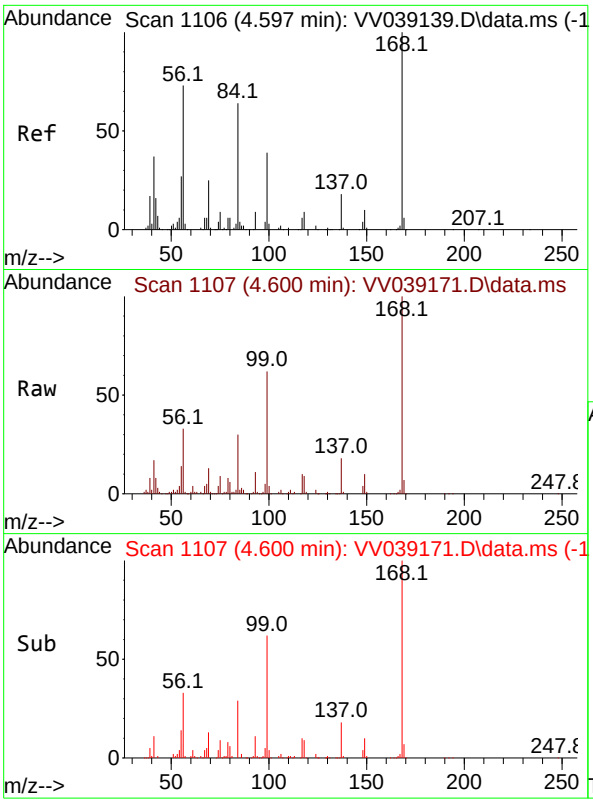
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



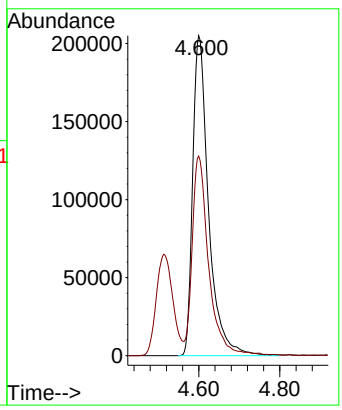


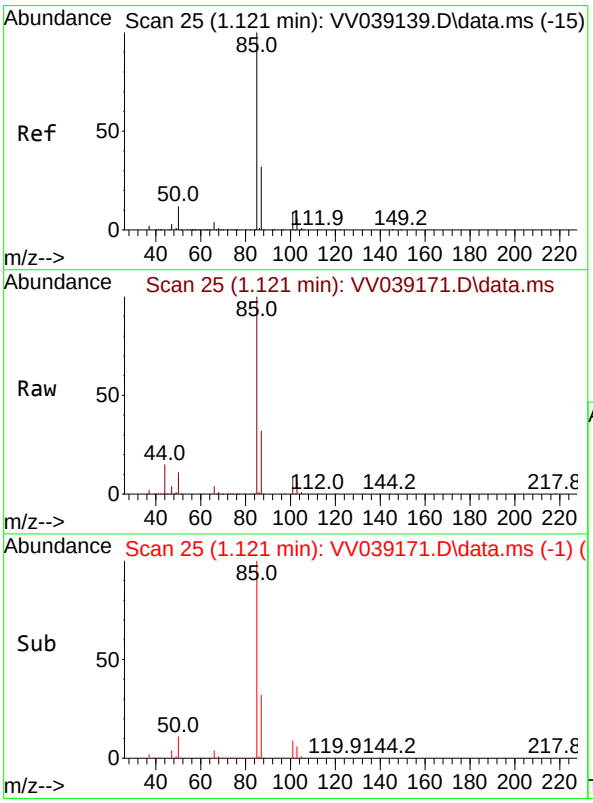
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:168 Resp: 557017

Ion	Ratio	Lower	Upper
168	100		
99	62.1	49.6	74.4

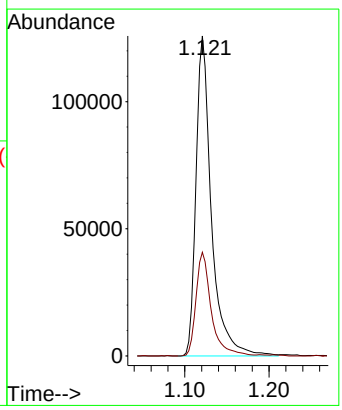


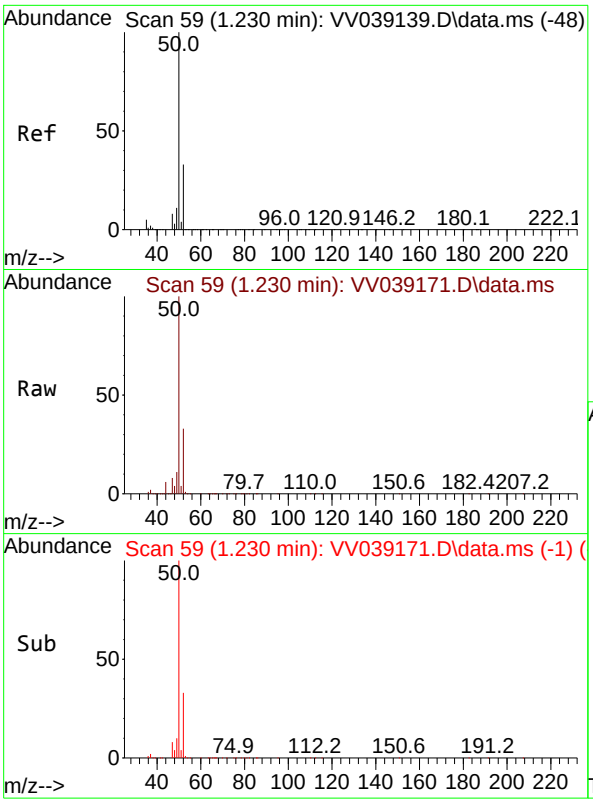


#2
Dichlorodifluoromethane
Concen: 18.191 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 85 Resp: 160404

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.0	47.9



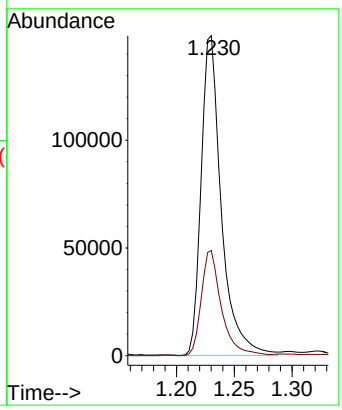


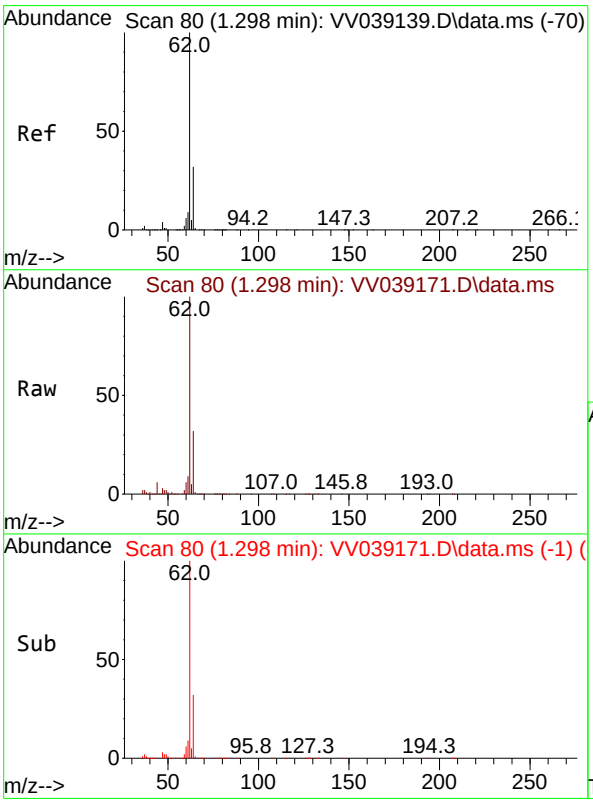
#3
Chloromethane
Concen: 19.082 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 50 Resp: 180629

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.0	39.0

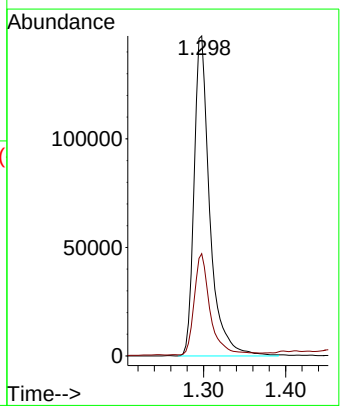


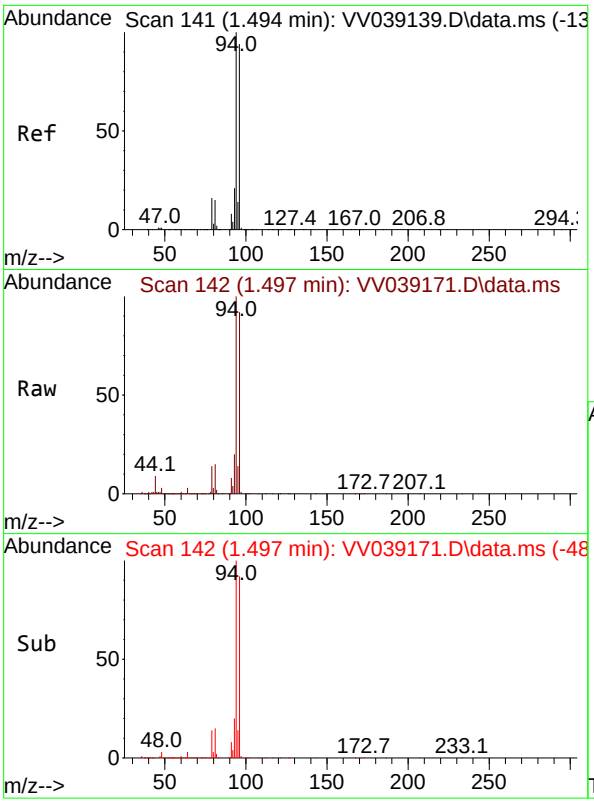


#4
Vinyl Chloride
Concen: 19.356 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 62 Resp: 196152

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.6	38.4



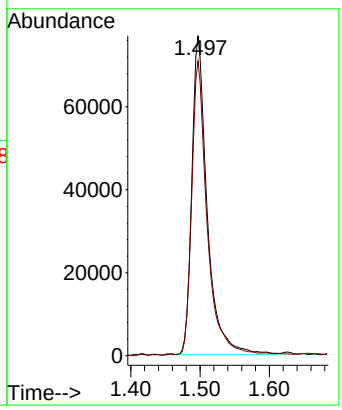


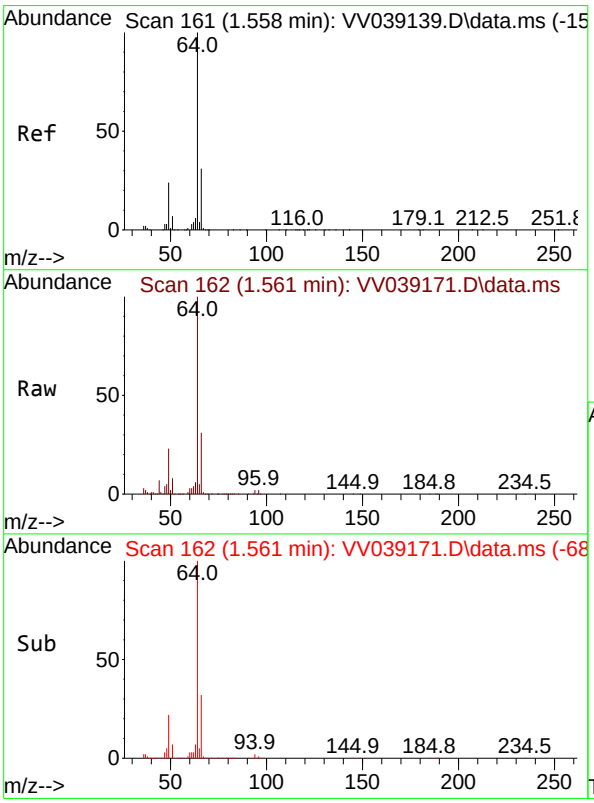
#5
Bromomethane
Concen: 18.704 ug/l
RT: 1.497 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 94 Resp: 119487

Ion	Ratio	Lower	Upper
94	100		
96	91.8	74.9	112.3

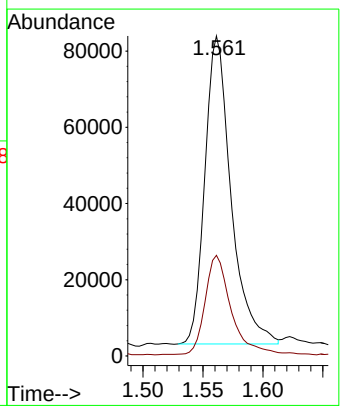


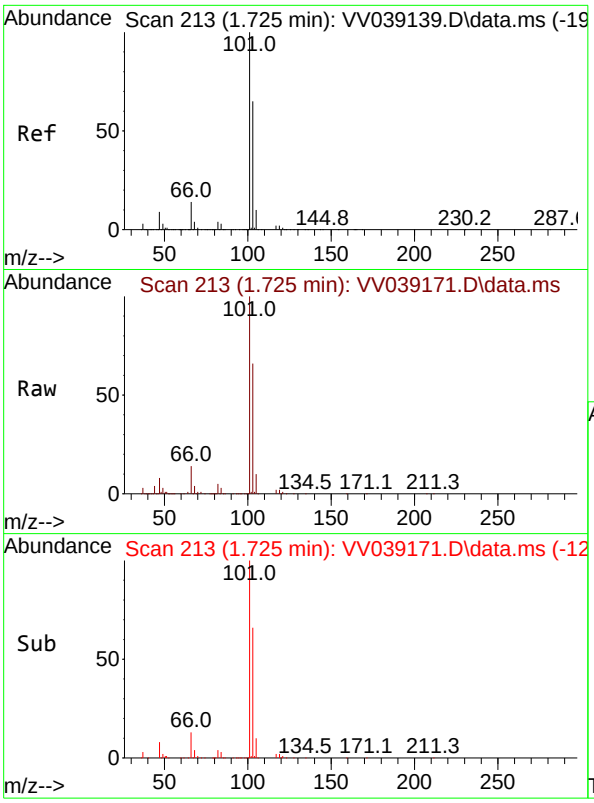


#6
Chloroethane
Concen: 19.279 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 64 Resp: 122694

Ion	Ratio	Lower	Upper
64	100		
66	32.1	24.6	36.8



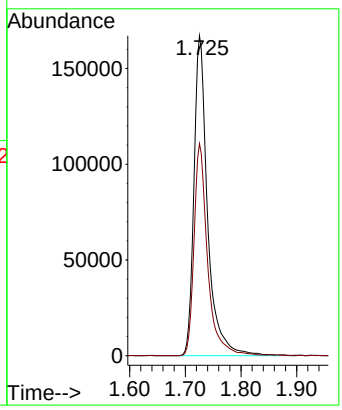


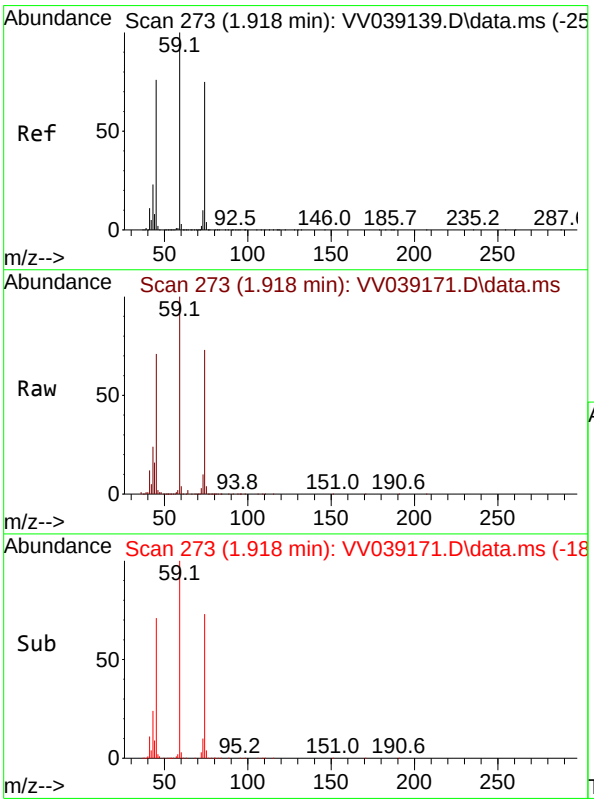
#7
Trichlorofluoromethane
Concen: 19.396 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:101 Resp: 284580

Ion	Ratio	Lower	Upper
101	100		
103	66.2	52.0	78.0

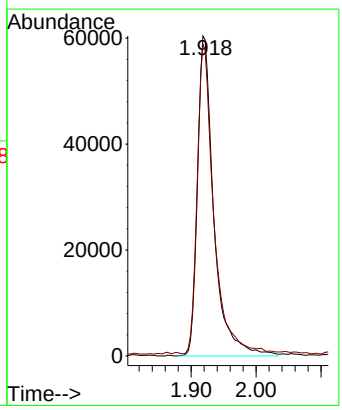


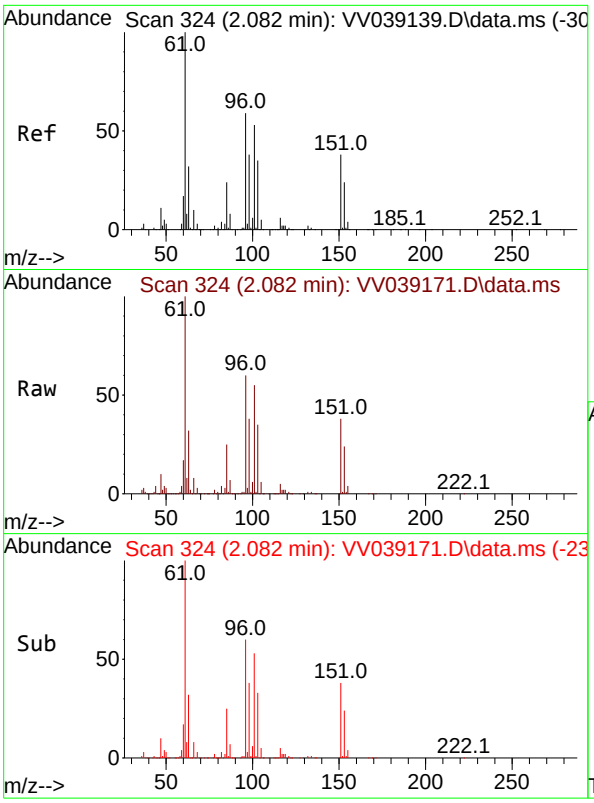


#8
Diethyl Ether
Concen: 19.466 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 74 Resp: 106026

Ion	Ratio	Lower	Upper
74	100		
45	97.8	49.6	148.8



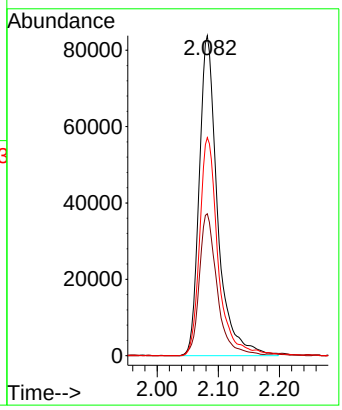


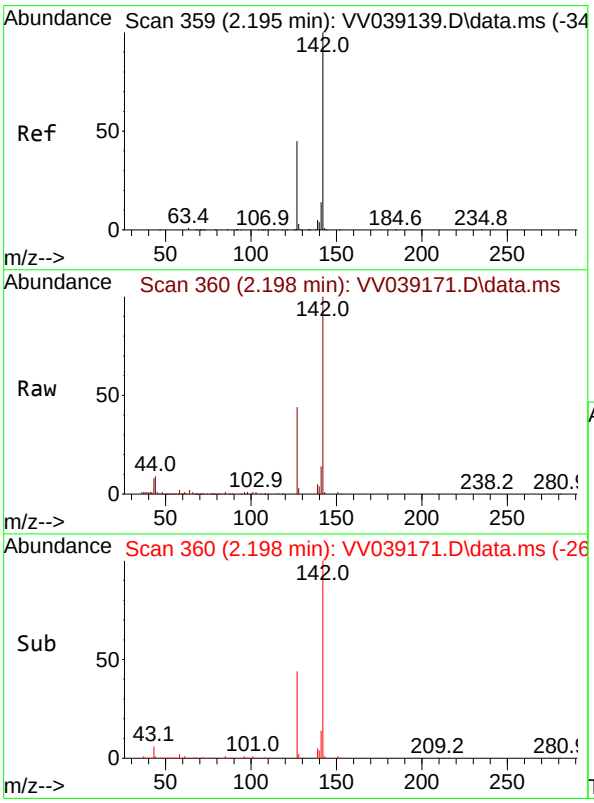
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.007 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:101 Resp: 174658

Ion	Ratio	Lower	Upper
101	100		
85	43.4	36.2	54.2
151	67.4	56.3	84.5

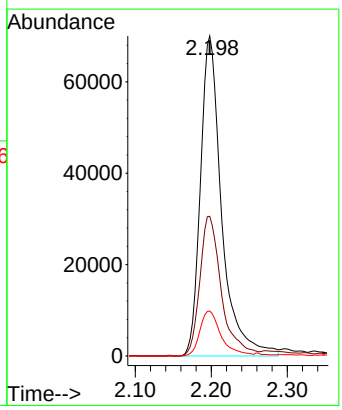


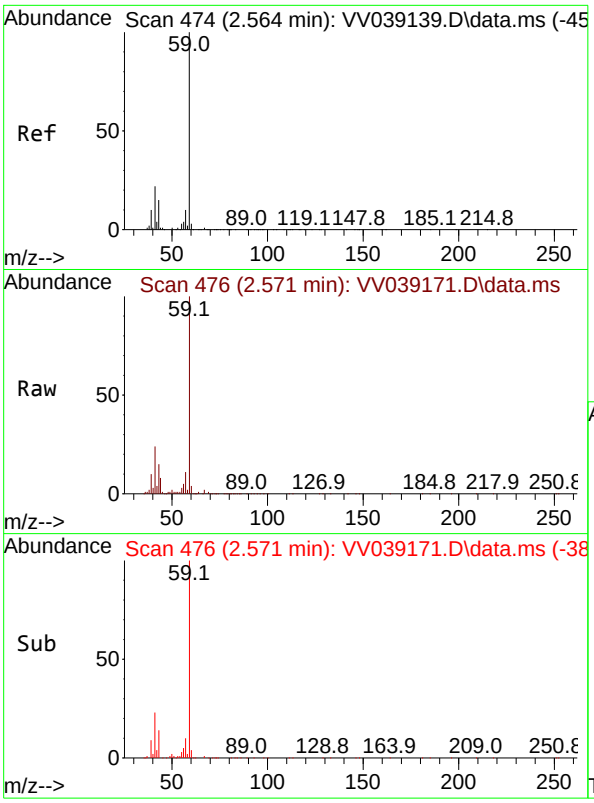


#10
Methyl Iodide
Concen: 16.356 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:142 Resp: 135972

Ion	Ratio	Lower	Upper
142	100		
127	44.3	36.3	54.5
141	14.0	11.2	16.8



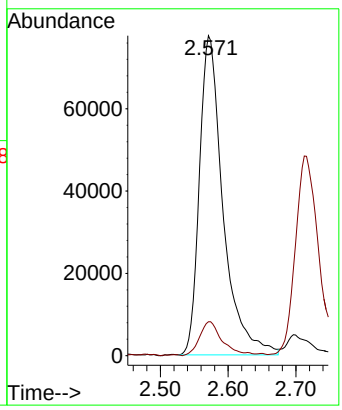


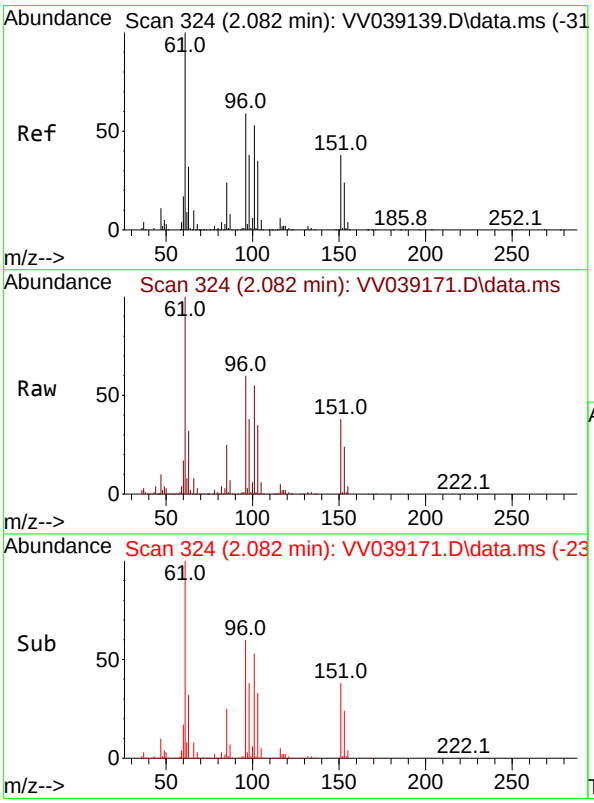
#11
Tert butyl alcohol
Concen: 110.174 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 59 Resp: 187721

Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.8	11.8

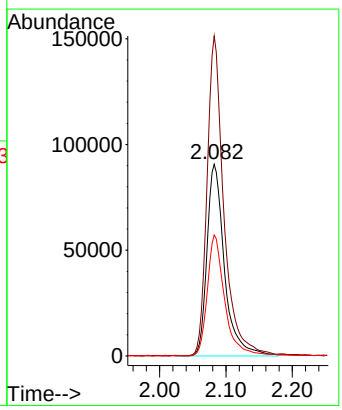


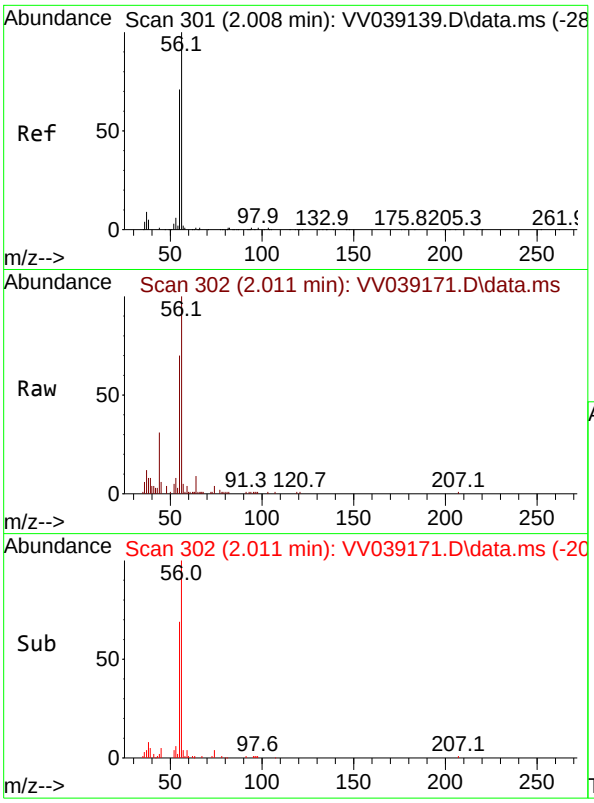


#12
1,1-Dichloroethene
Concen: 19.882 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 96 Resp: 166976

Ion	Ratio	Lower	Upper
96	100		
61	166.7	136.0	204.0
98	63.0	51.0	76.6



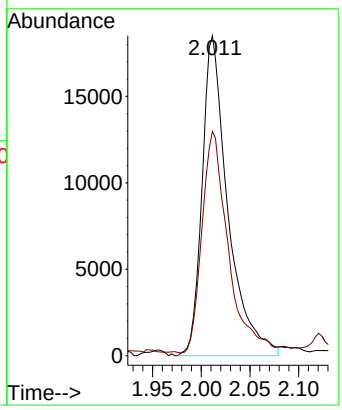


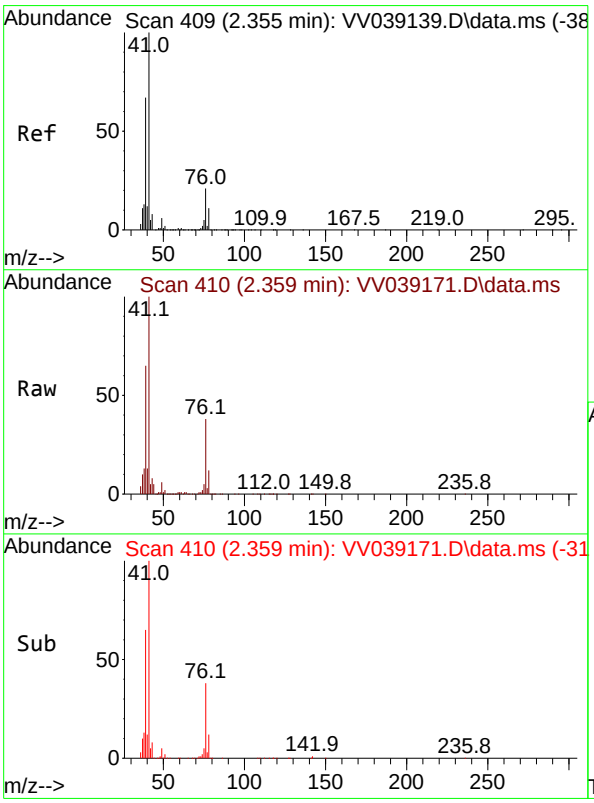
#13
Acrolein
Concen: 115.083 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 56 Resp: 34025

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4

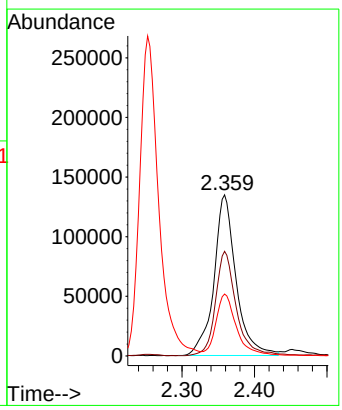


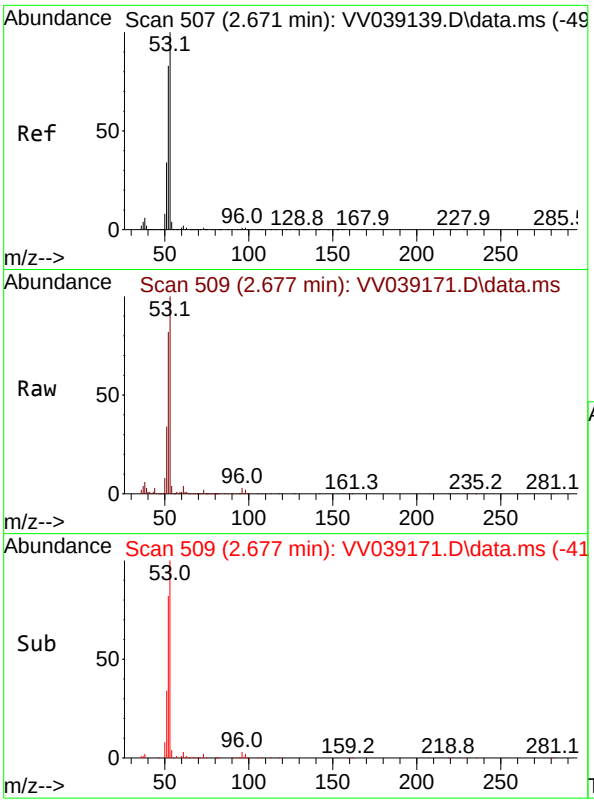


#14
Allyl chloride
Concen: 19.080 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 41 Resp: 286242

Ion	Ratio	Lower	Upper
41	100		
39	61.0	51.0	76.6
76	35.6	28.2	42.4



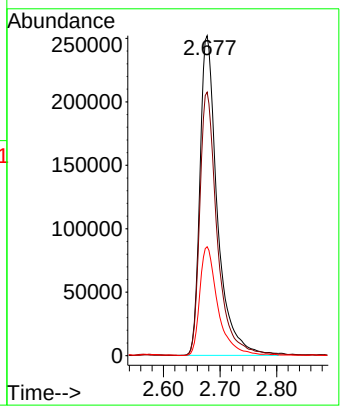


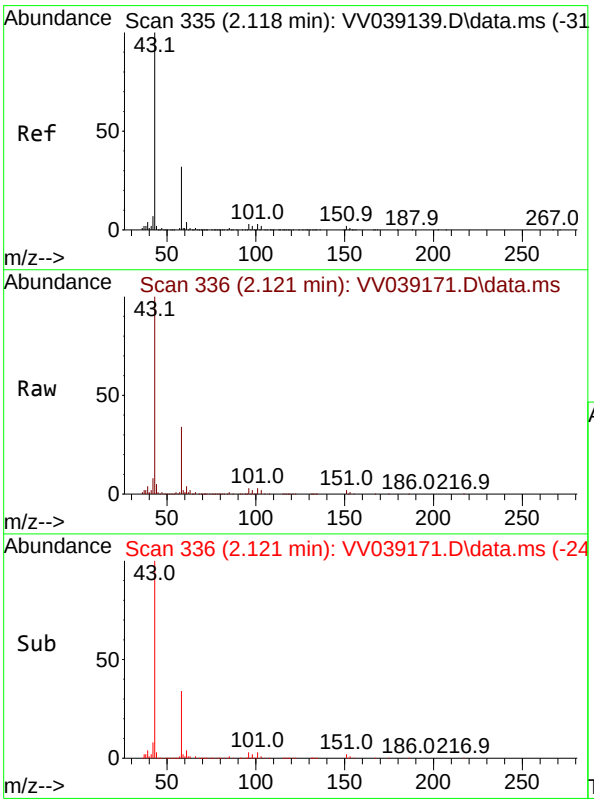
#15
Acrylonitrile
Concen: 98.597 ug/l
RT: 2.677 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 53 Resp: 538540

Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.1	99.1
51	35.2	28.5	42.7

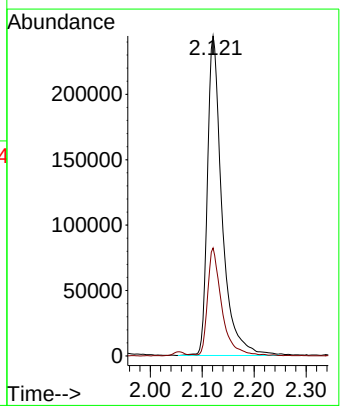


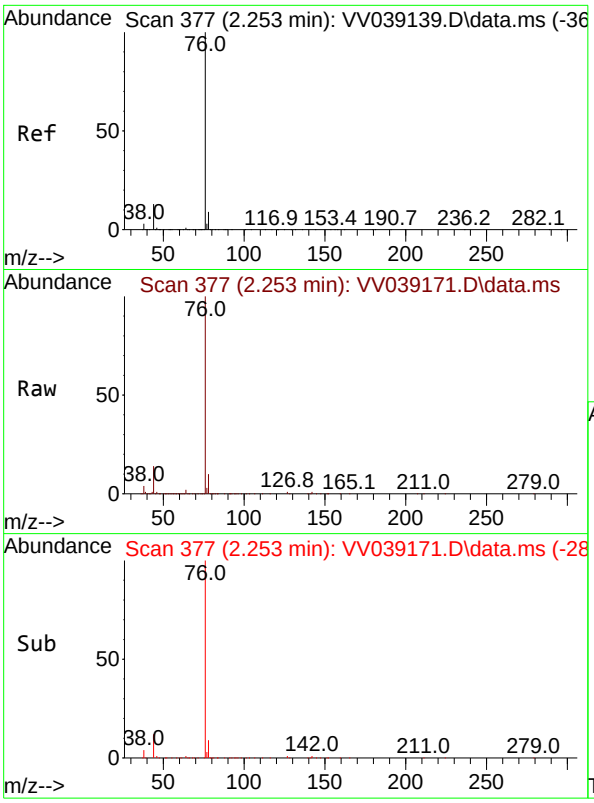


#16
Acetone
Concen: 89.017 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 43 Resp: 476447

Ion	Ratio	Lower	Upper
43	100		
58	33.7	25.8	38.6



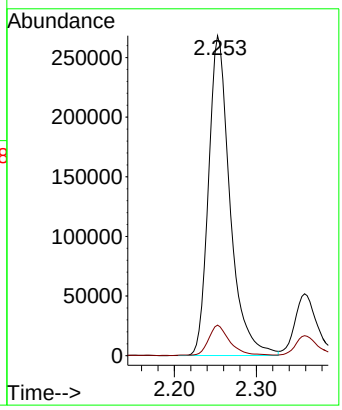


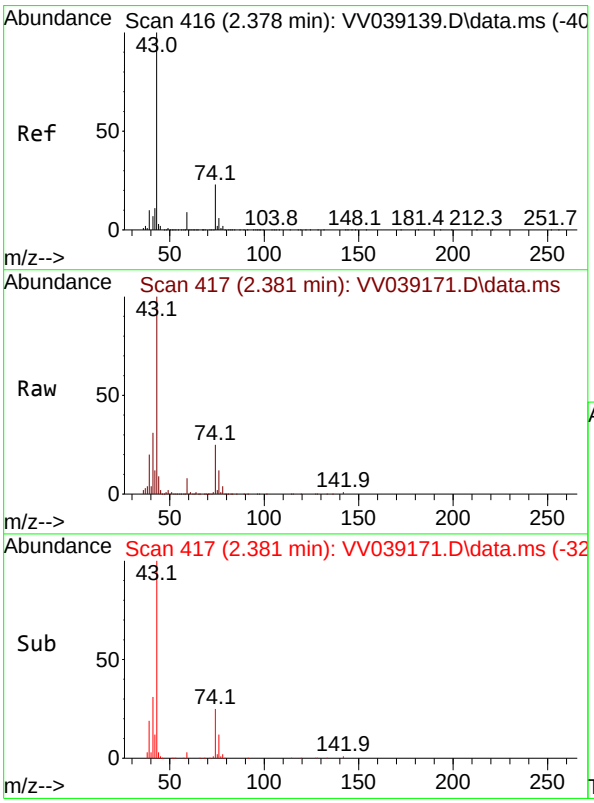
#17
Carbon Disulfide
Concen: 18.977 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 76 Resp: 487416

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

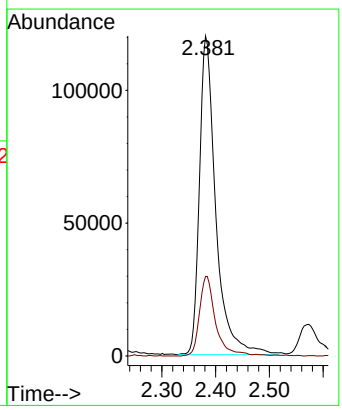


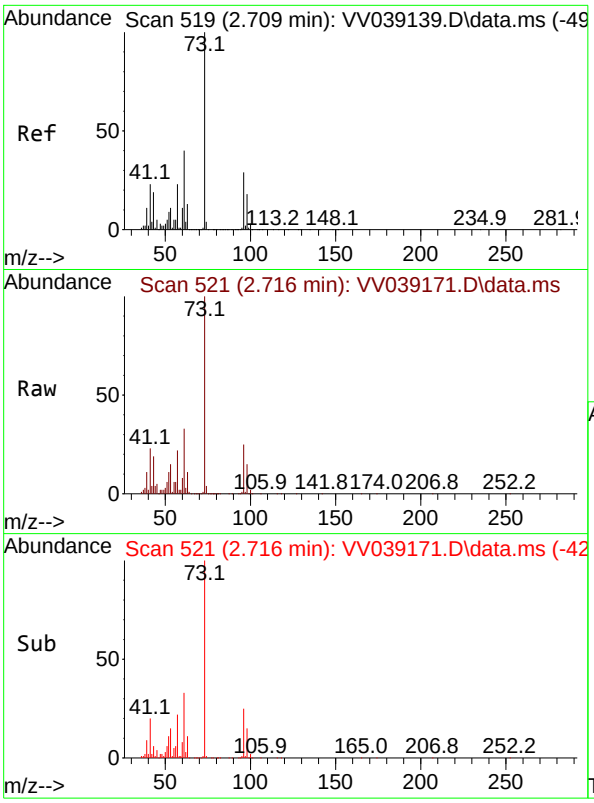


#18
Methyl Acetate
Concen: 21.167 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 43 Resp: 252836

Ion	Ratio	Lower	Upper
43	100		
74	24.4	18.6	27.8



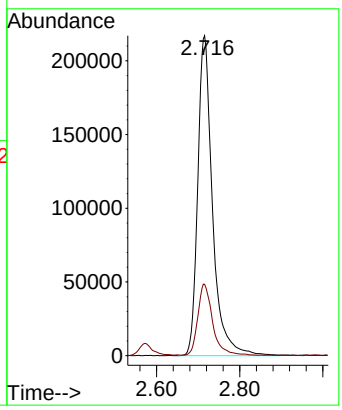


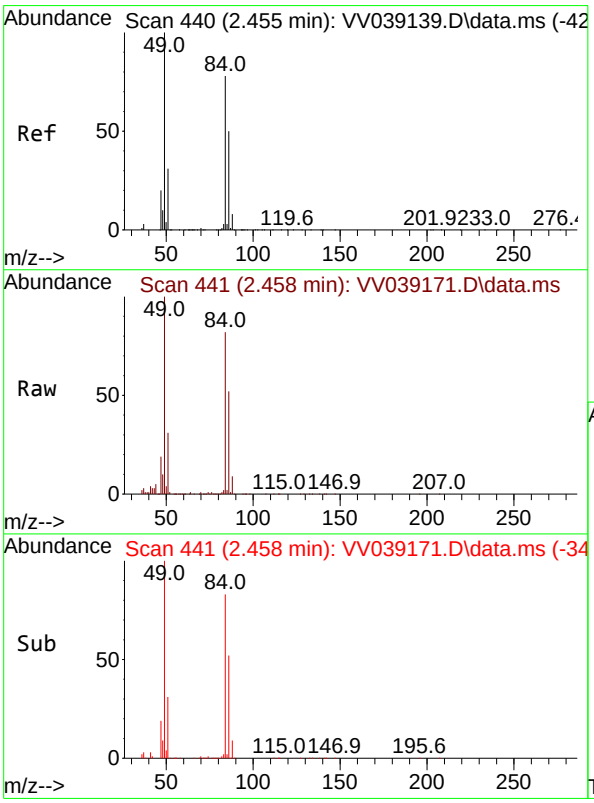
#19
Methyl tert-butyl Ether
Concen: 19.995 ug/l
RT: 2.716 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 73 Resp: 535106

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.2	27.4

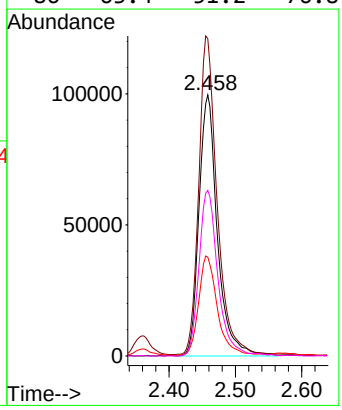


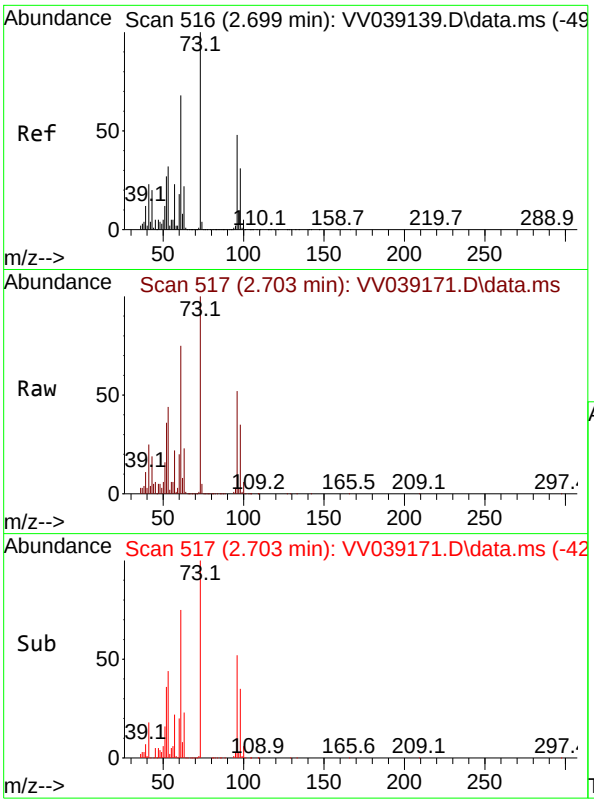


#20
Methylene Chloride
Concen: 20.555 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 84 Resp: 192332

Ion	Ratio	Lower	Upper
84	100		
49	120.8	102.8	154.2
51	37.5	31.9	47.9
86	63.4	51.2	76.8



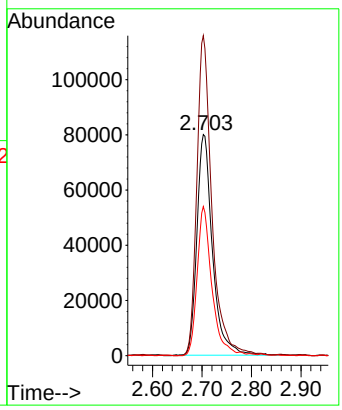


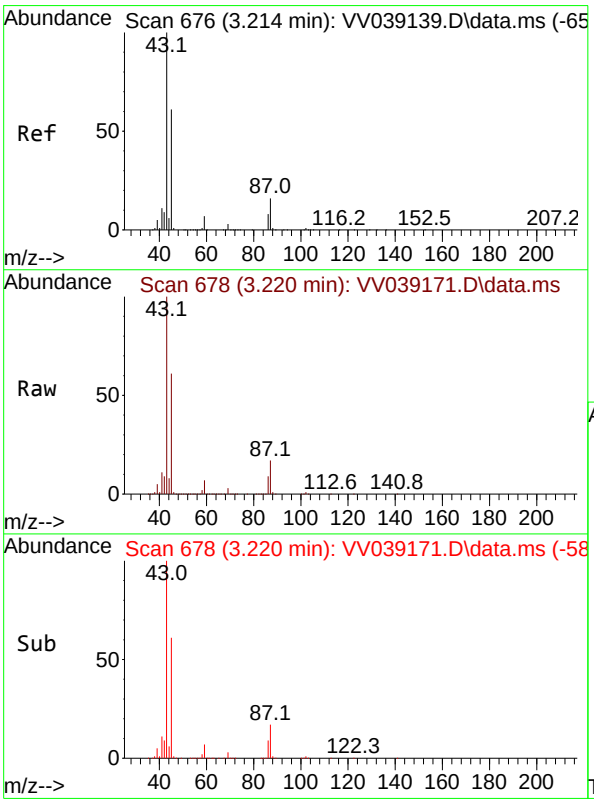
#21
trans-1,2-Dichloroethene
Concen: 19.703 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 96 Resp: 176159

Ion	Ratio	Lower	Upper
96	100		
61	145.0	112.8	169.2
98	67.6	51.1	76.7

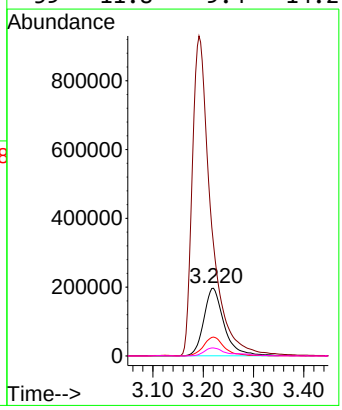


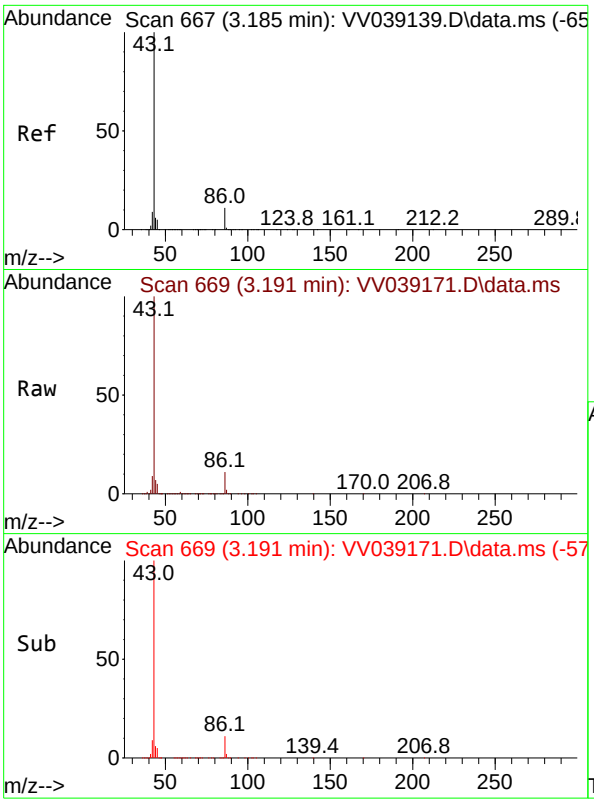


#22
Diisopropyl ether
Concen: 19.161 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 45 Resp: 549959

Ion	Ratio	Lower	Upper
45	100		
43	164.4	130.9	196.3
87	27.6	21.1	31.7
59	11.8	9.4	14.2



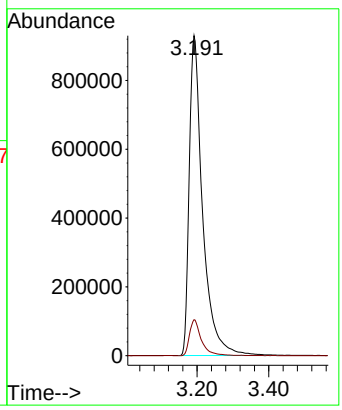


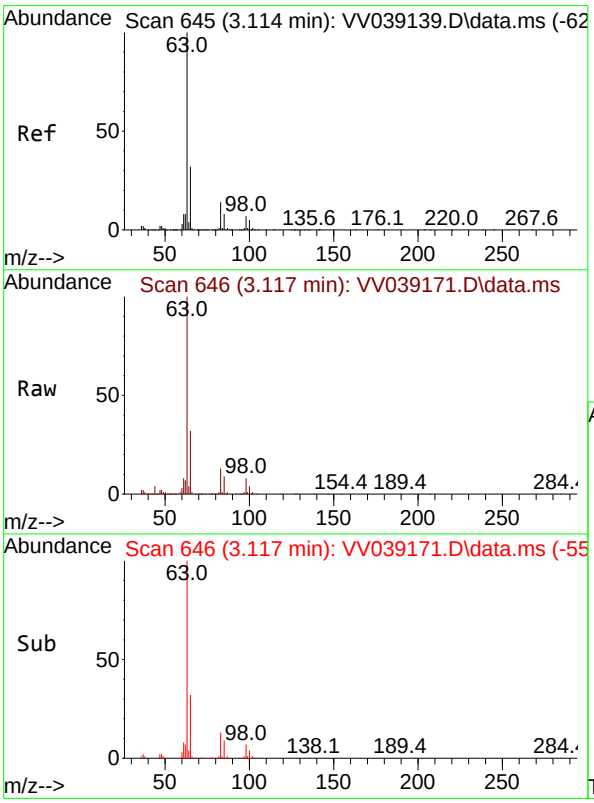
#23
Vinyl Acetate
Concen: 96.182 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 43 Resp: 2415006

Ion	Ratio	Lower	Upper
43	100		
86	11.2	8.4	12.6

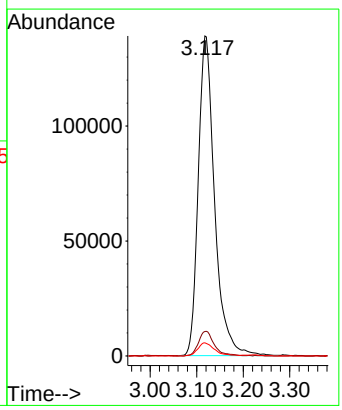


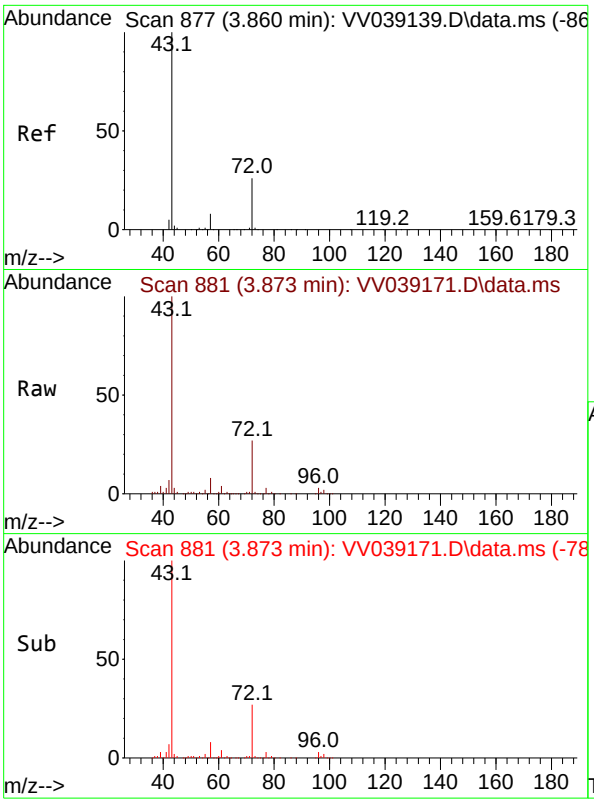


#24
1,1-Dichloroethane
Concen: 19.322 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 63 Resp: 339160

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.4	10.2
100	4.1	2.2	6.6



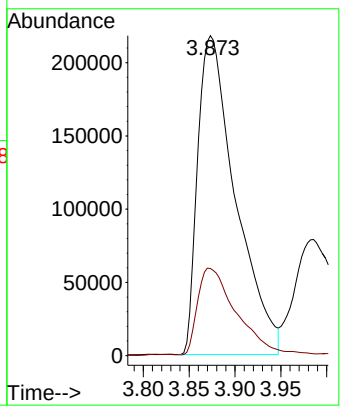


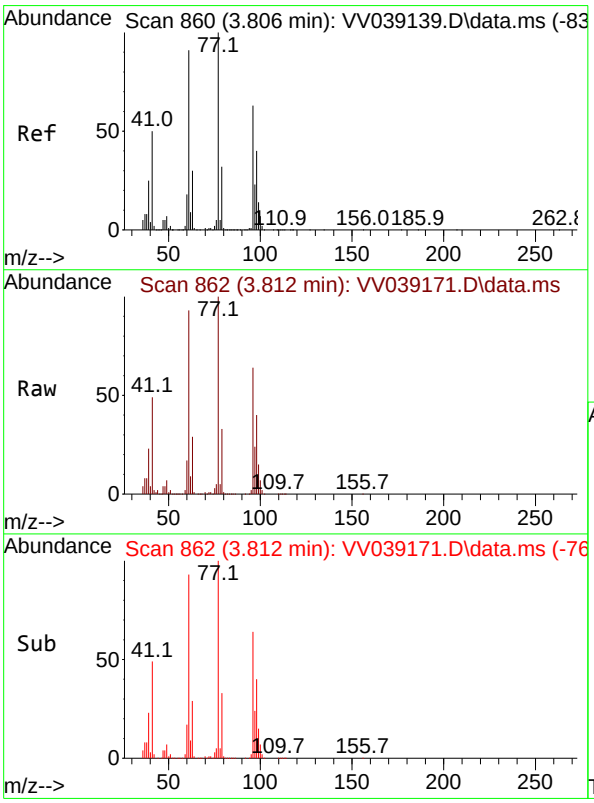
#25
2-Butanone
Concen: 97.122 ug/l
RT: 3.873 min Scan# 8
Delta R.T. 0.013 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 43 Resp: 626977

Ion	Ratio	Lower	Upper
43	100		
72	27.1	21.0	31.6

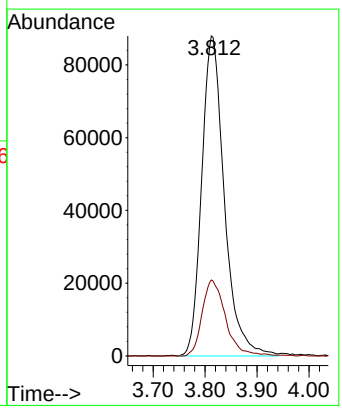


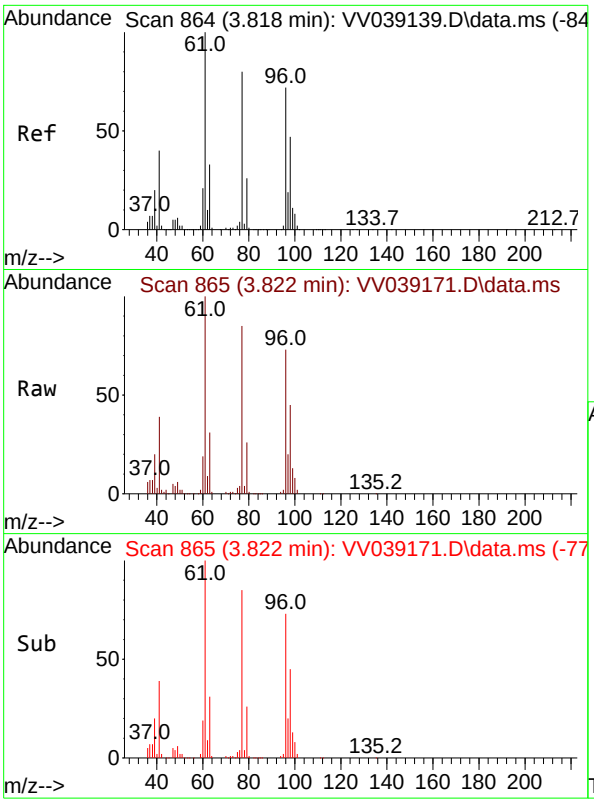


#26
2,2-Dichloropropane
Concen: 17.109 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 77 Resp: 266277

Ion	Ratio	Lower	Upper
77	100		
97	24.3	11.6	34.7



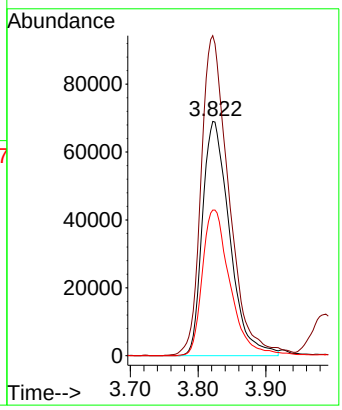


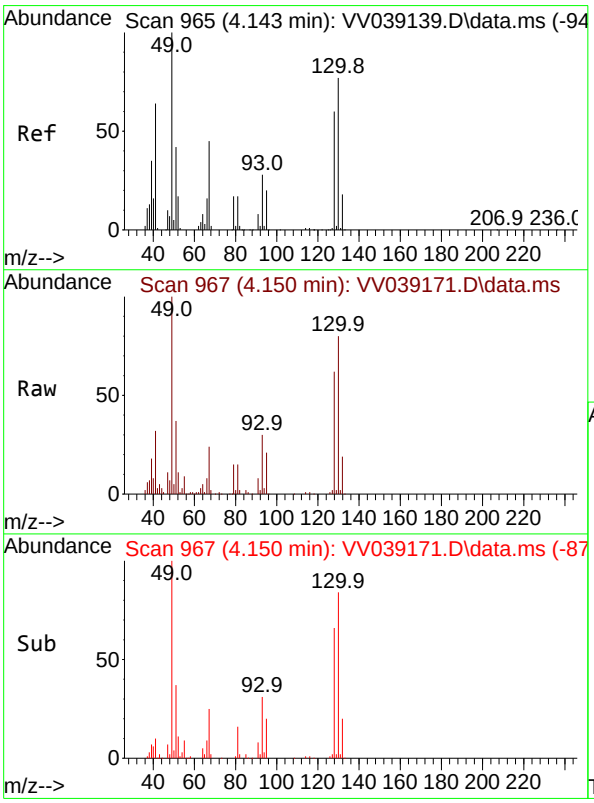
#27
cis-1,2-Dichloroethene
Concen: 19.468 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 96 Resp: 191963

Ion	Ratio	Lower	Upper
96	100		
61	140.4	0.0	286.4
98	63.8	0.0	126.6

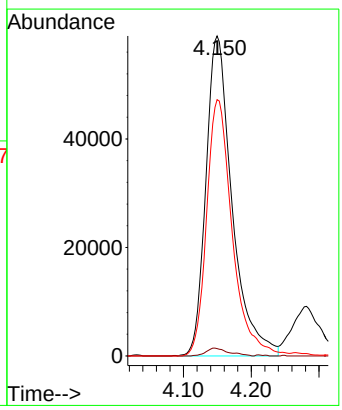


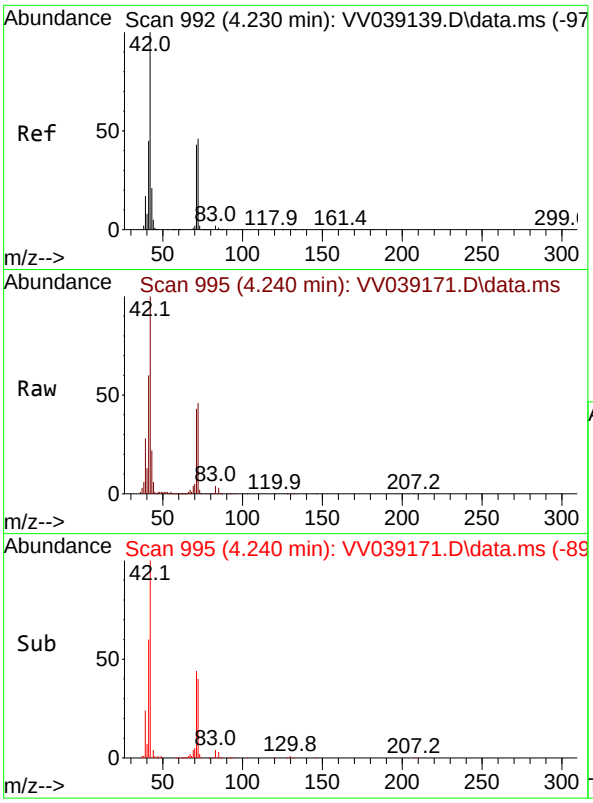


#28
Bromochloromethane
Concen: 20.475 ug/l
RT: 4.150 min Scan# 967
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 49 Resp: 158654

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	78.2	60.2	90.2



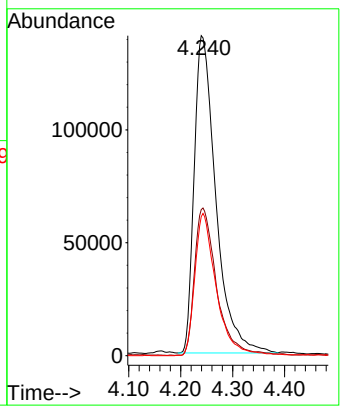


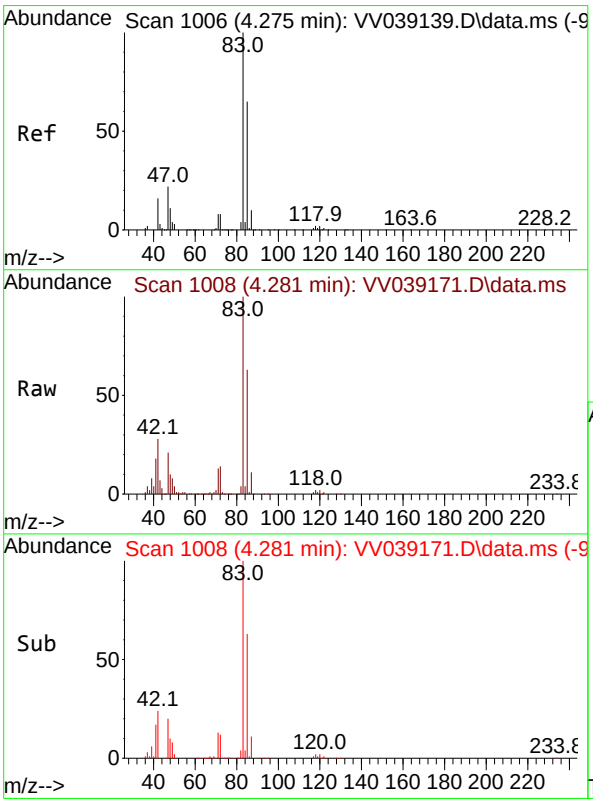
#29
Tetrahydrofuran
Concen: 100.814 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 42 Resp: 407358

Ion	Ratio	Lower	Upper
42	100		
72	46.4	36.3	54.5
71	44.4	34.3	51.5

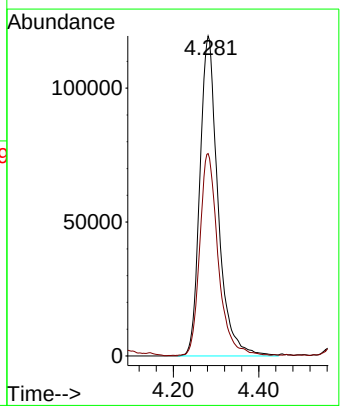


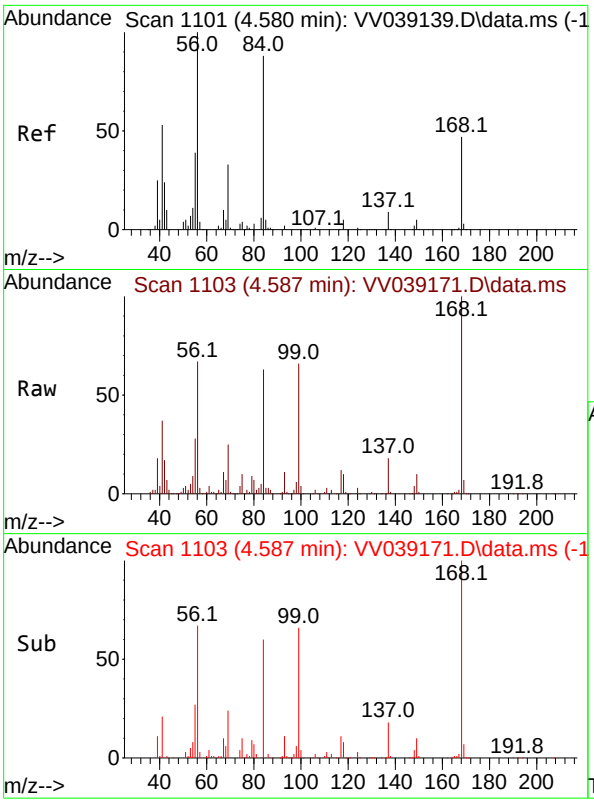


#30
Chloroform
Concen: 19.234 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 83 Resp: 352541

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.1	78.1



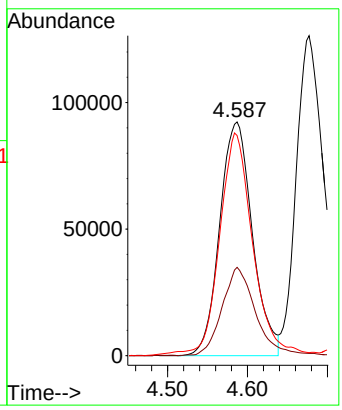


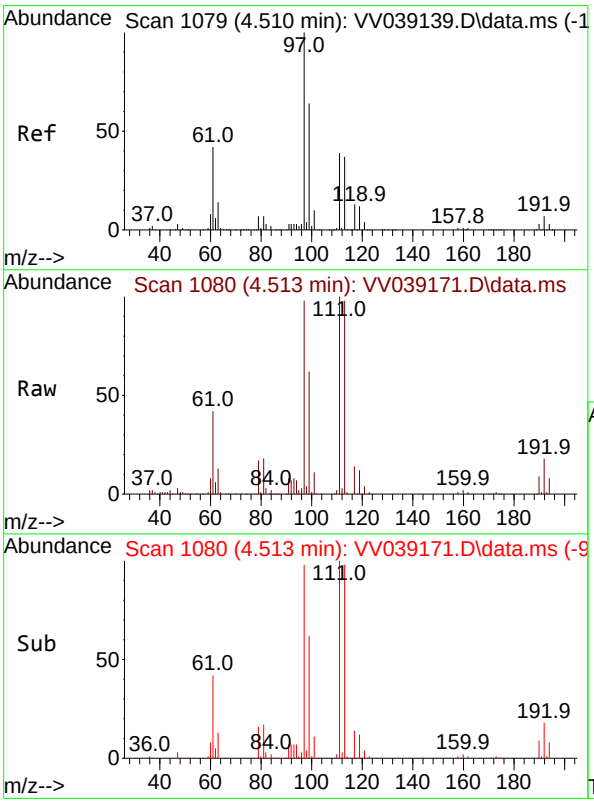
#31
Cyclohexane
Concen: 18.223 ug/l
RT: 4.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 56 Resp: 262018

Ion	Ratio	Lower	Upper
56	100		
69	37.7	26.2	39.2
84	92.4	70.3	105.5

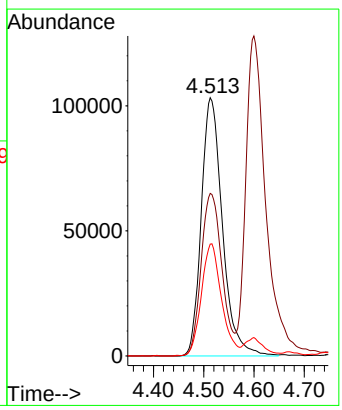


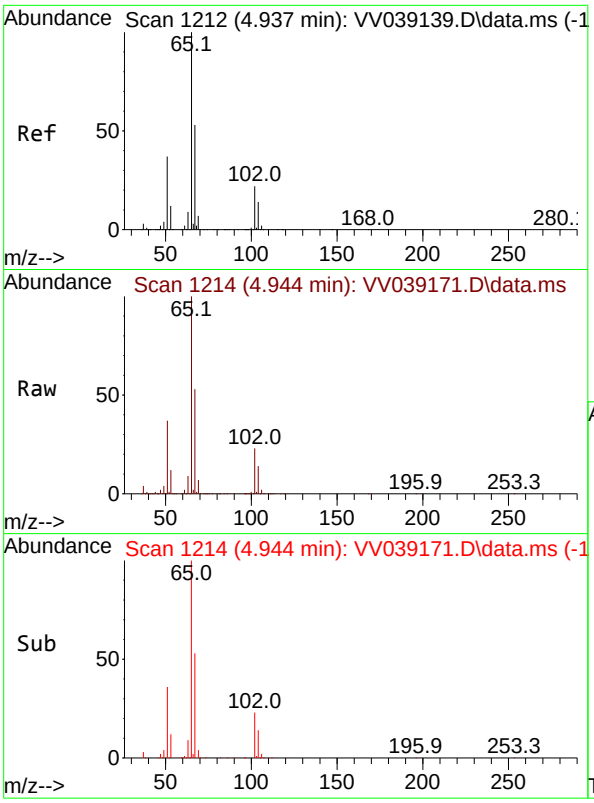


#32
1,1,1-Trichloroethane
Concen: 19.027 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 97 Resp: 301922

Ion	Ratio	Lower	Upper
97	100		
99	61.4	49.6	74.4
61	41.0	34.5	51.7



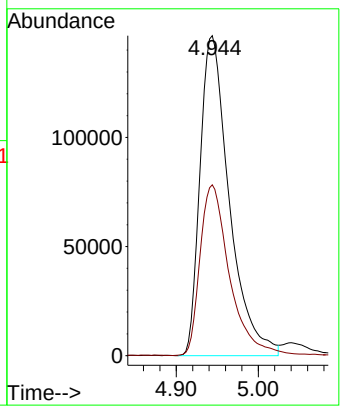


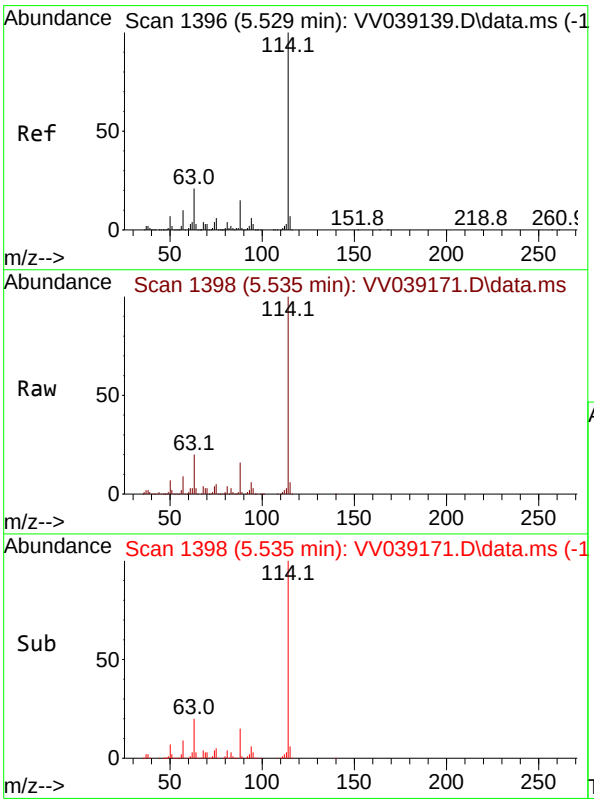
#33
1,2-Dichloroethane-d4
Concen: 45.127 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 65 Resp: 363796

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	107.0

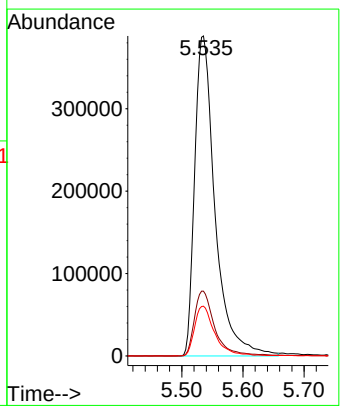


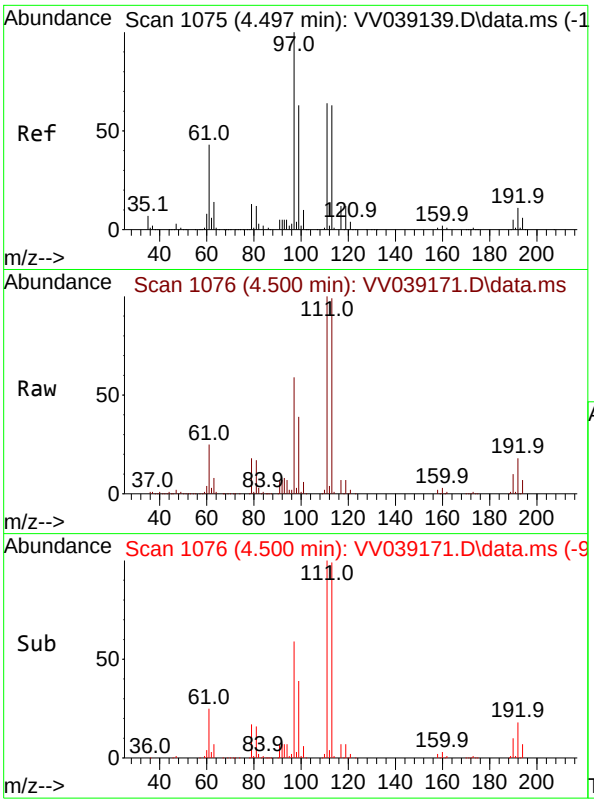


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:114 Resp: 898902

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.5	0.0	30.8



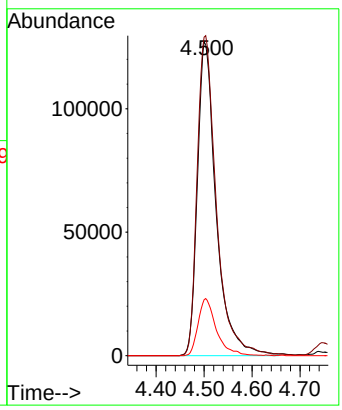


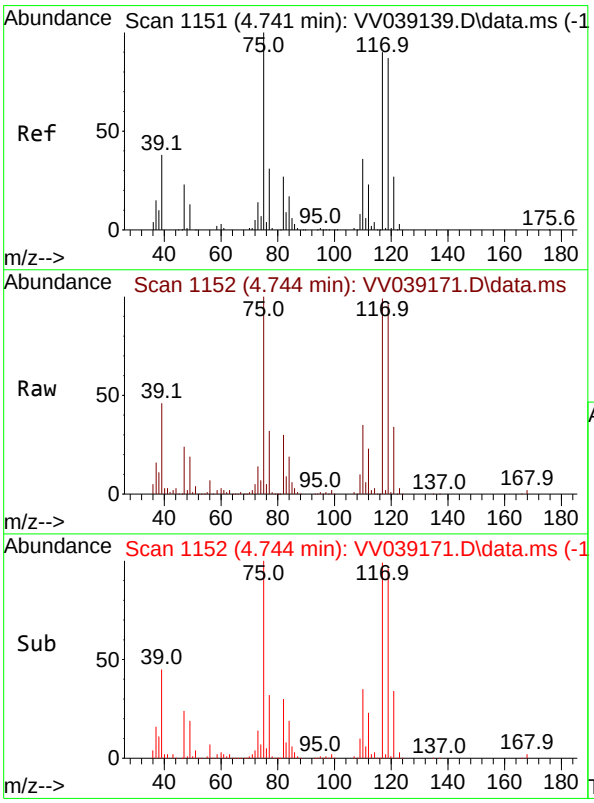
#35
Dibromofluoromethane
Concen: 47.843 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:113 Resp: 345732

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.4	123.6
192	17.7	13.8	20.8

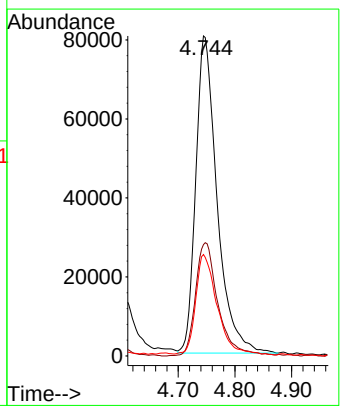


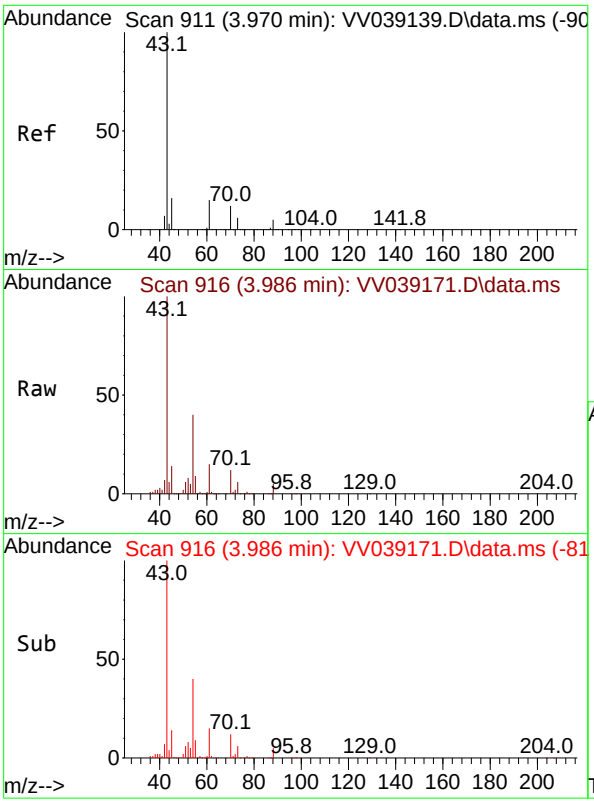


#36
1,1-Dichloropropene
Concen: 19.244 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 210259

Ion	Ratio	Lower	Upper
75	100		
110	37.4	18.1	54.1
77	32.0	24.8	37.2



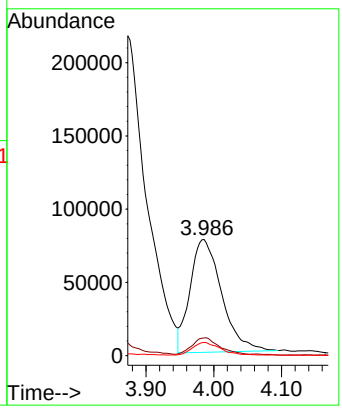


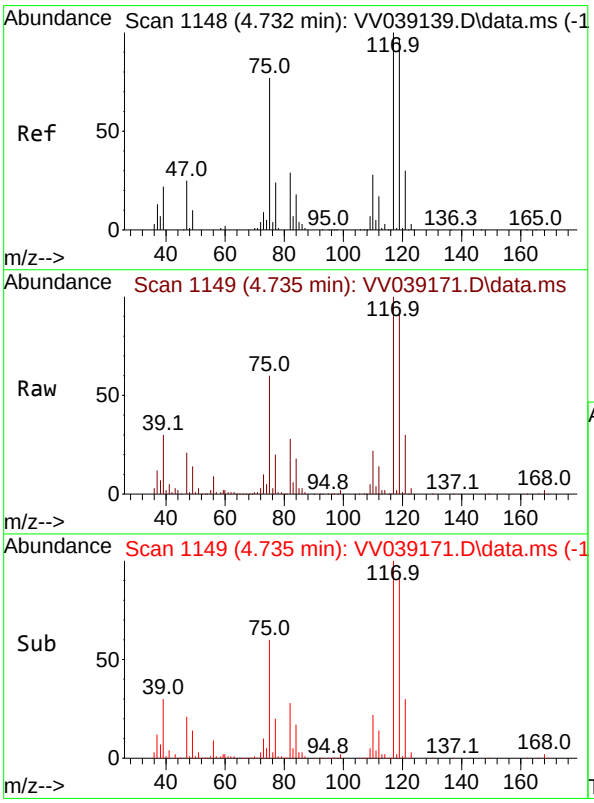
#37
Ethyl Acetate
Concen: 18.849 ug/l
RT: 3.986 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 43 Resp: 249892

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.3	15.5
70	10.0	8.0	12.0

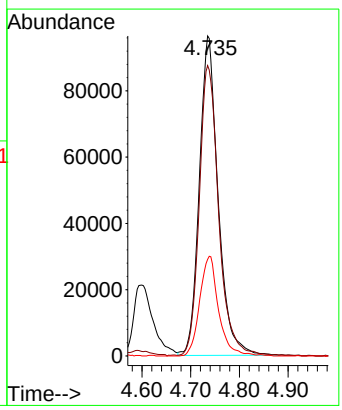


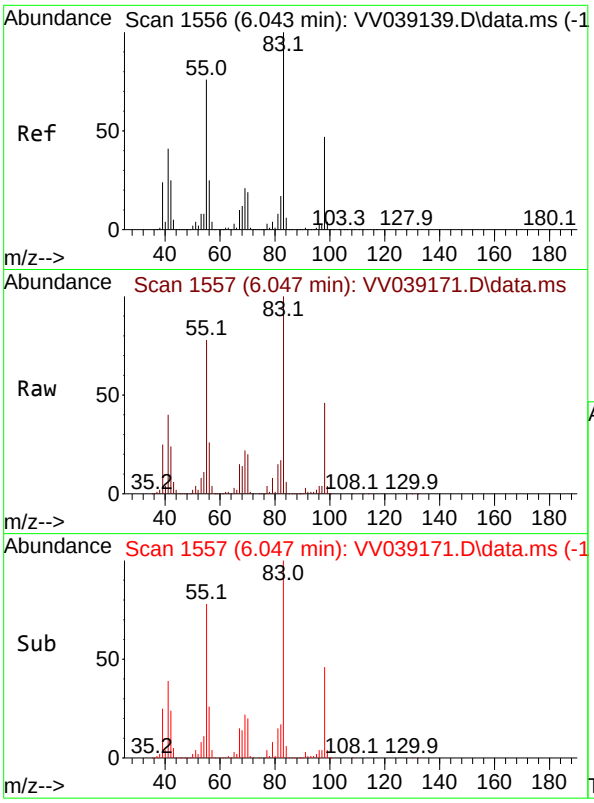


#38
Carbon Tetrachloride
Concen: 19.380 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:117 Resp: 258780

Ion	Ratio	Lower	Upper
117	100		
119	90.8	77.2	115.8
121	30.3	24.2	36.2



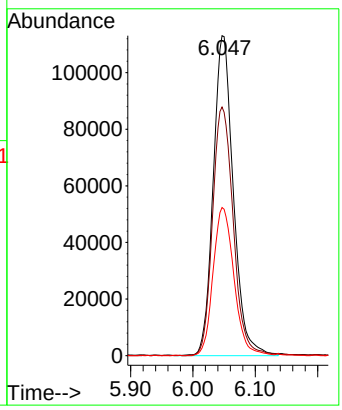


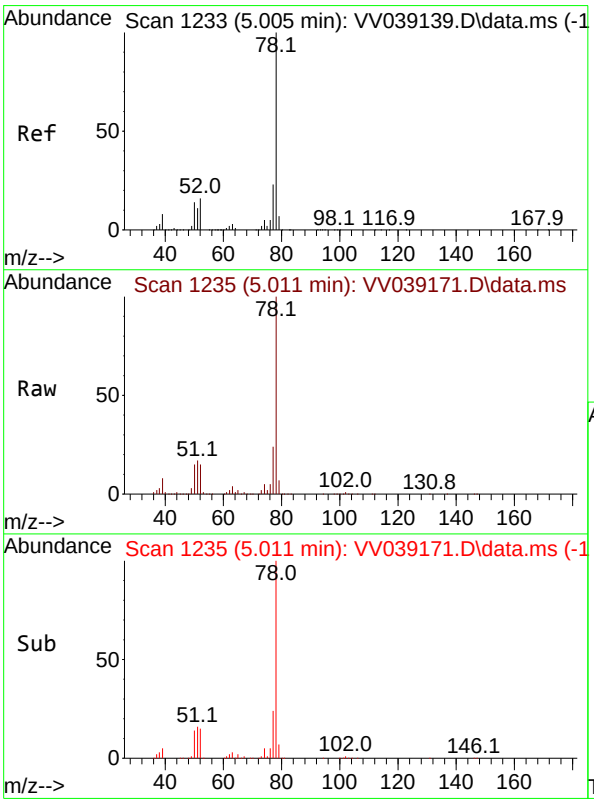
#39
Methylcyclohexane
Concen: 19.193 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 83 Resp: 253234

Ion	Ratio	Lower	Upper
83	100		
55	77.6	60.5	90.7
98	46.2	37.8	56.6

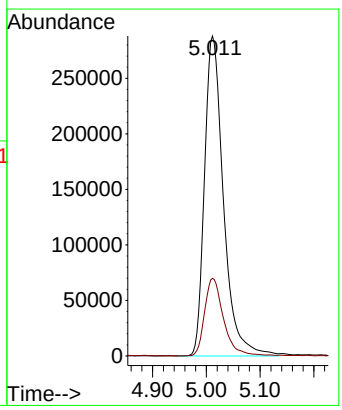


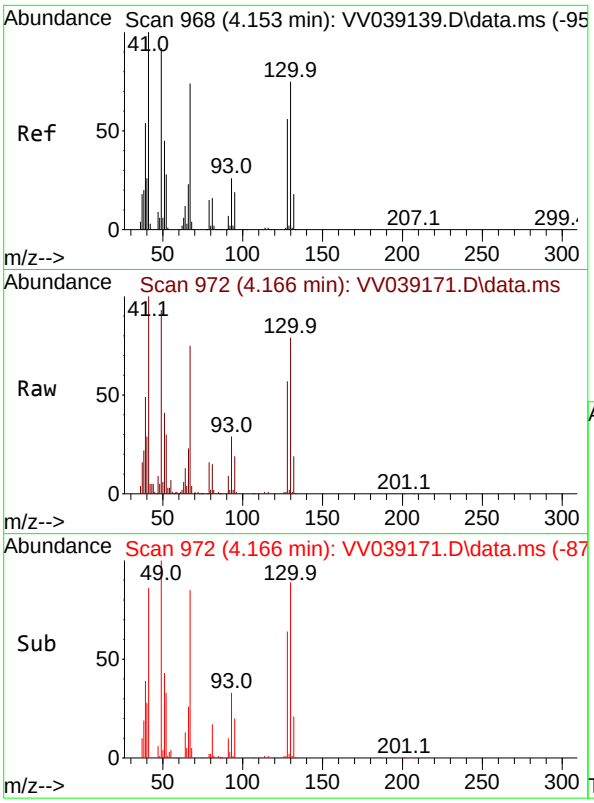


#40
Benzene
Concen: 19.867 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 78 Resp: 706824

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.7	28.1



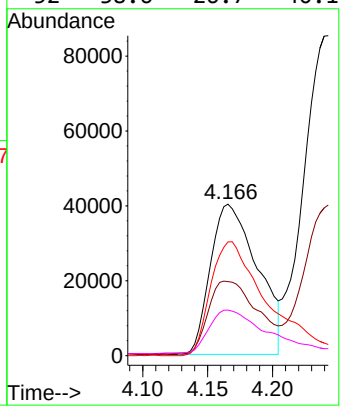


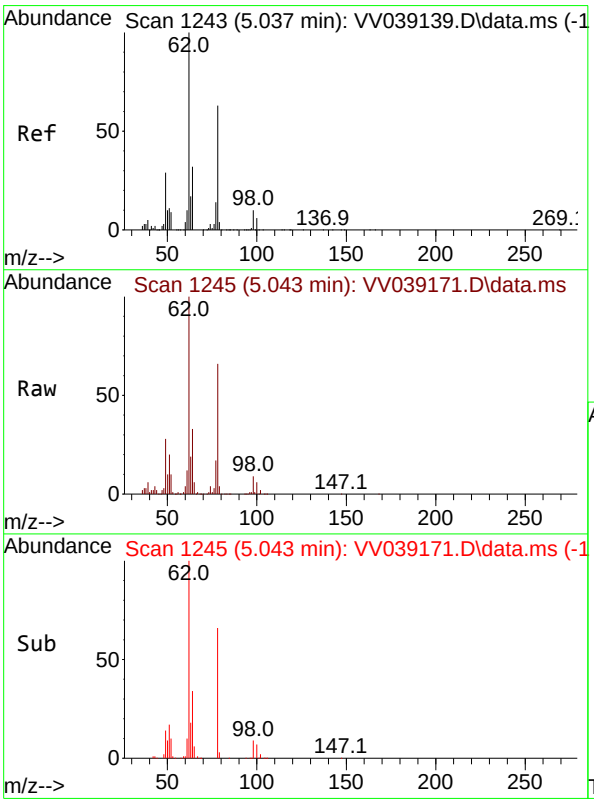
#41
Methacrylonitrile
Concen: 18.119 ug/l
RT: 4.166 min Scan# 9
Delta R.T. 0.013 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 41 Resp: 101017

Ion	Ratio	Lower	Upper
41	100		
39	51.1	42.2	63.2
67	94.9	67.9	101.9
52	38.6	26.7	40.1

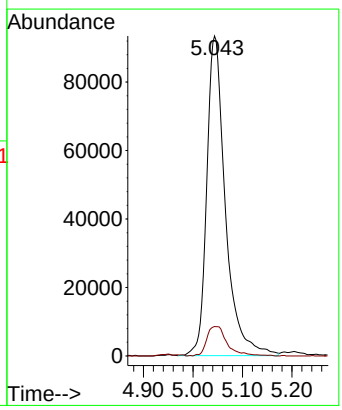


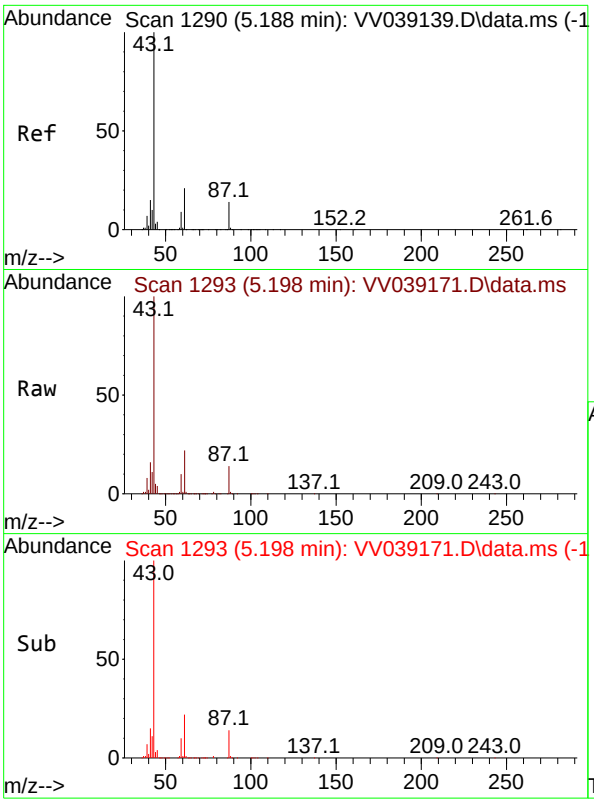


#42
1,2-Dichloroethane
Concen: 19.562 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 62 Resp: 243861

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.2



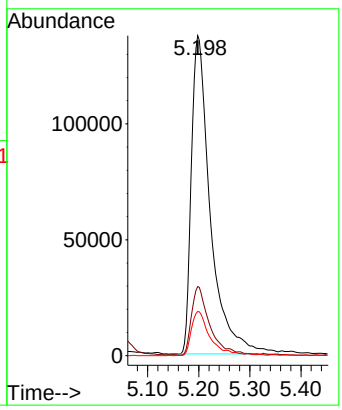


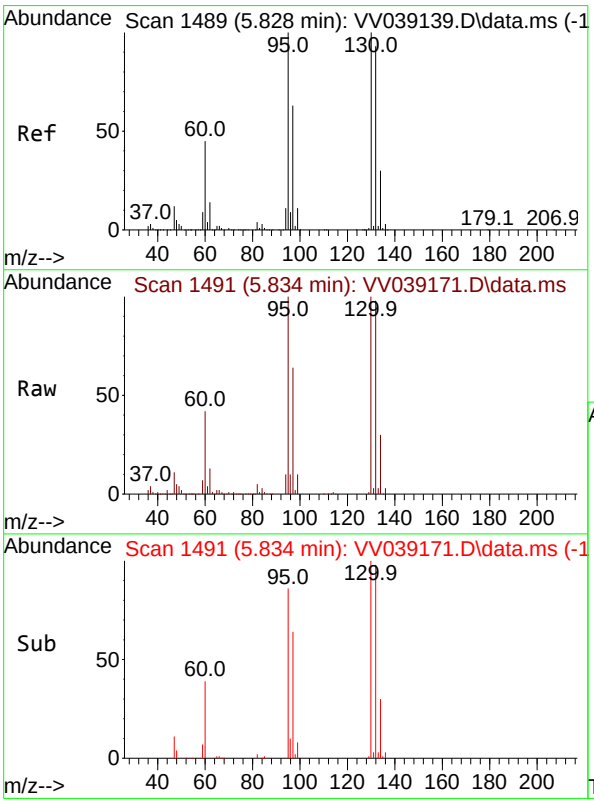
#43
Isopropyl Acetate
Concen: 19.627 ug/l
RT: 5.198 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 43 Resp: 354785

Ion	Ratio	Lower	Upper
43	100		
61	20.6	15.9	23.9
87	13.4	11.0	16.6

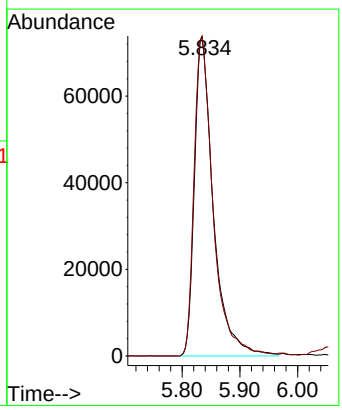


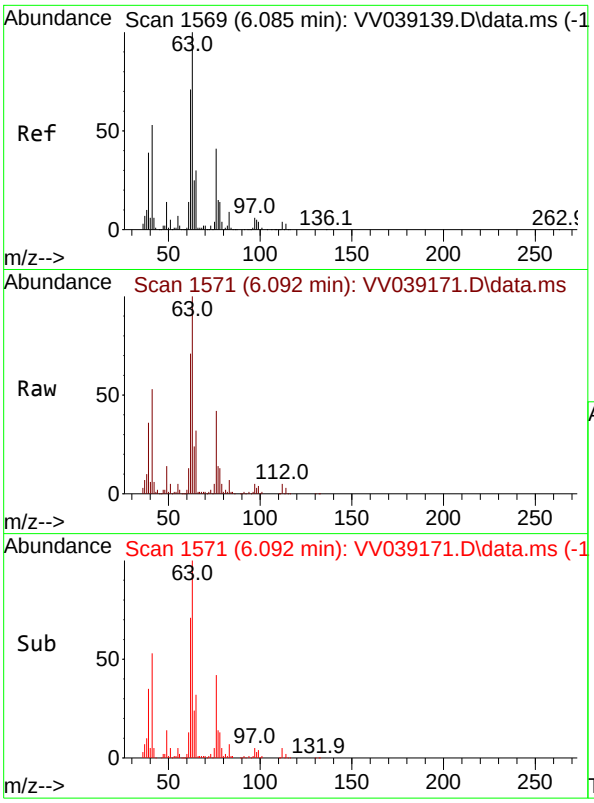


#44
Trichloroethene
Concen: 20.352 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:130 Resp: 167082

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	199.2



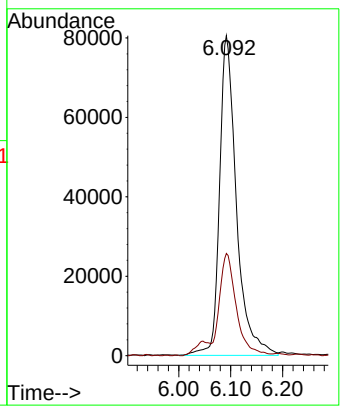


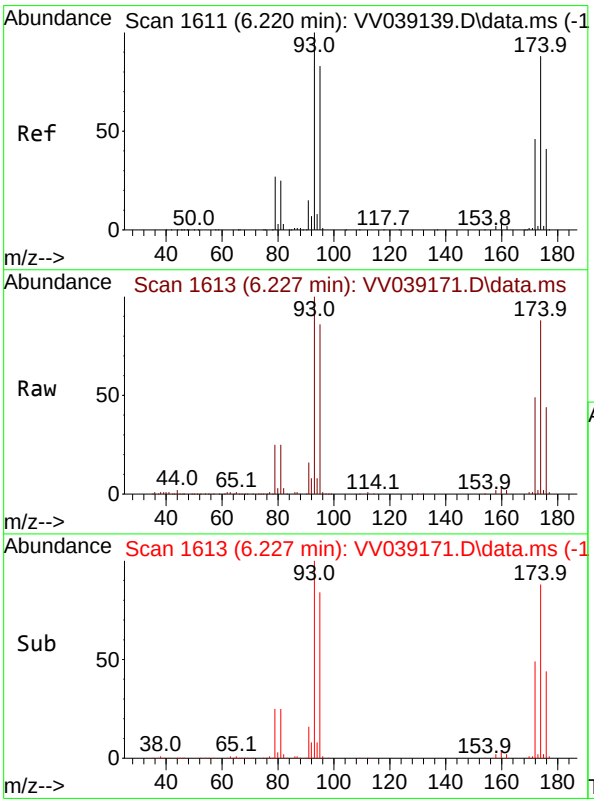
#45
1,2-Dichloropropane
Concen: 20.511 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 63 Resp: 181382

Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.7	35.5

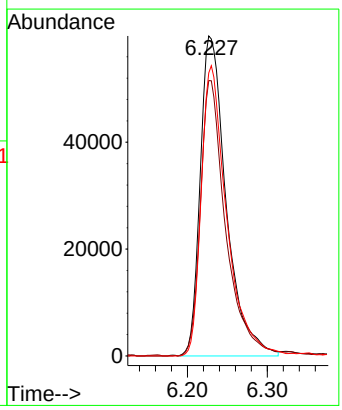


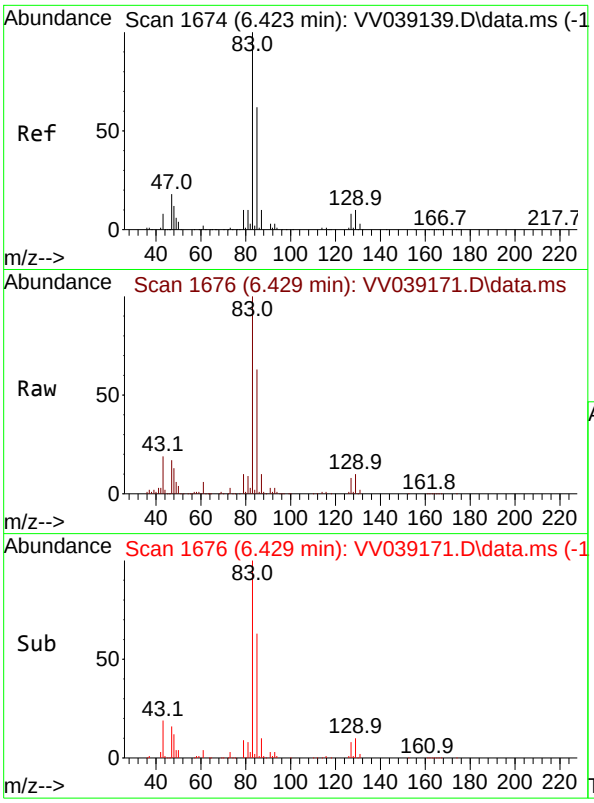


#46
Dibromomethane
Concen: 20.031 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 93 Resp: 135579

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.5	98.3
174	88.9	69.0	103.4



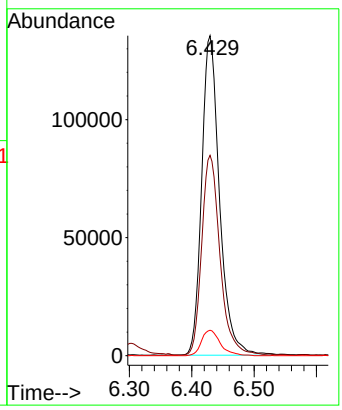


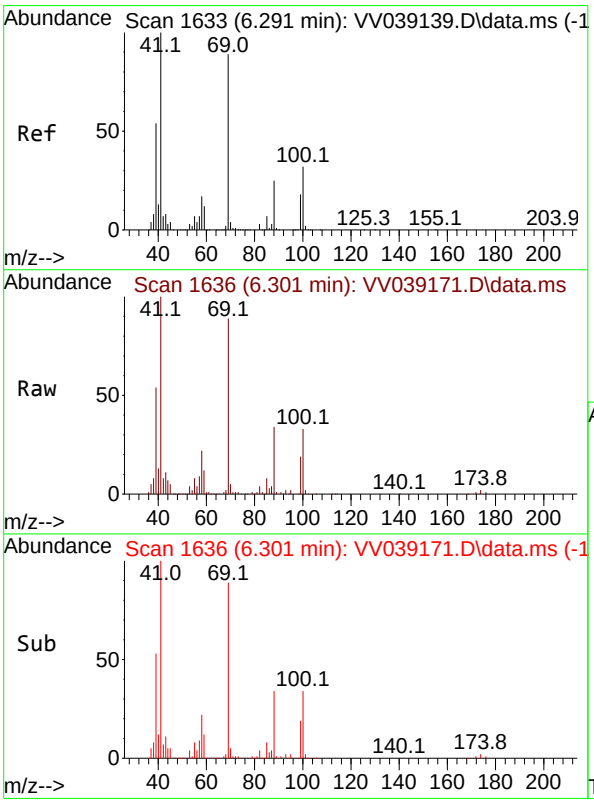
#47
Bromodichloromethane
Concen: 19.295 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 83 Resp: 269985

Ion	Ratio	Lower	Upper
83	100		
85	62.4	49.7	74.5
127	8.0	6.6	9.8

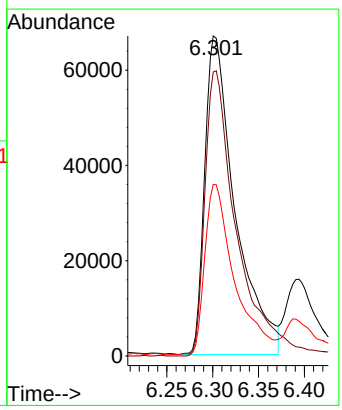


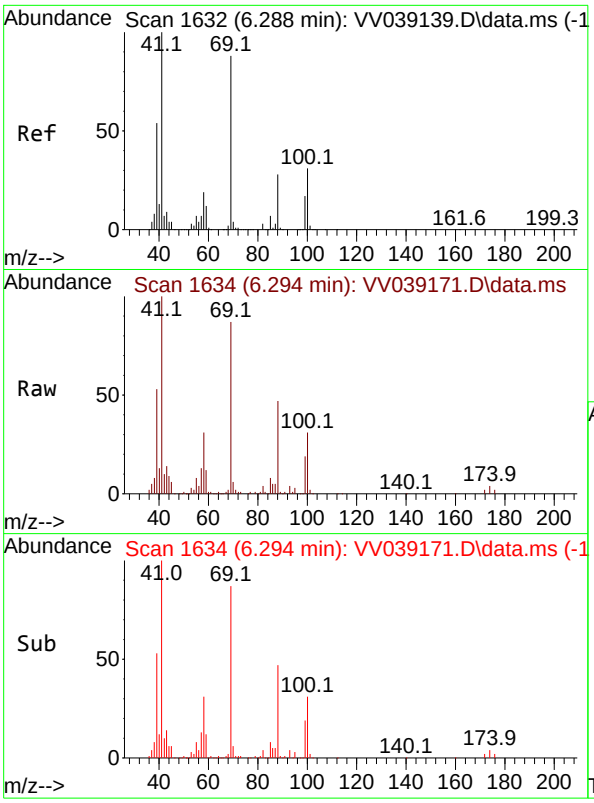


#48
Methyl methacrylate
Concen: 18.869 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 41 Resp: 154615

Ion	Ratio	Lower	Upper
41	100		
69	93.7	72.4	108.6
39	51.9	42.5	63.7



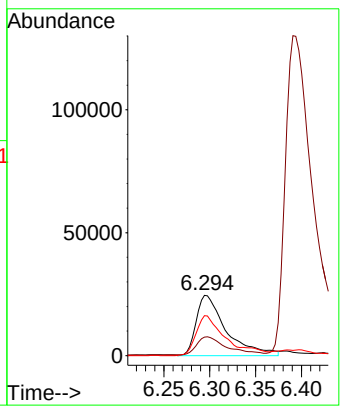


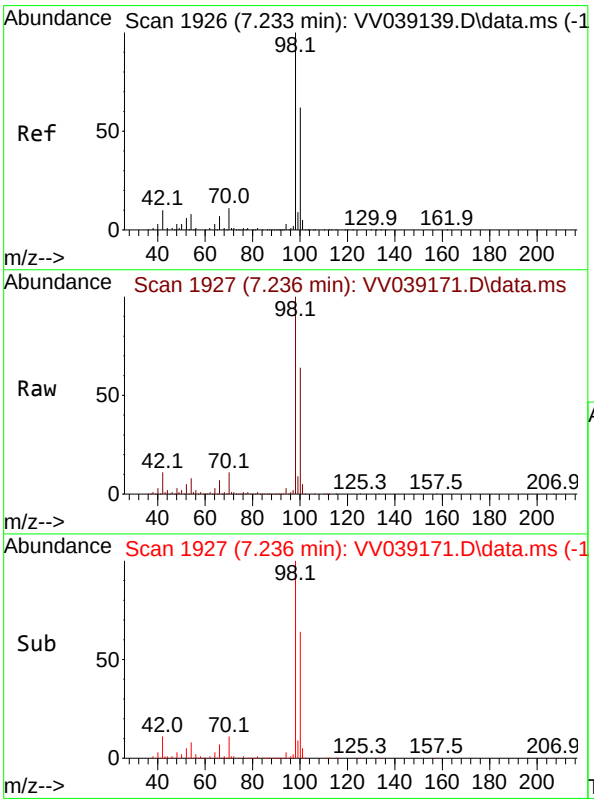
#49
1,4-Dioxane
Concen: 422.109 ug/l
RT: 6.294 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 88 Resp: 55817

Ion	Ratio	Lower	Upper
88	100		
43	29.5	25.1	37.7
58	66.2	53.6	80.4

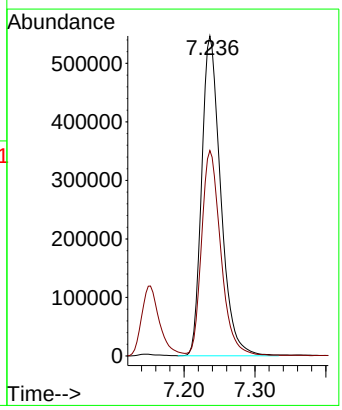


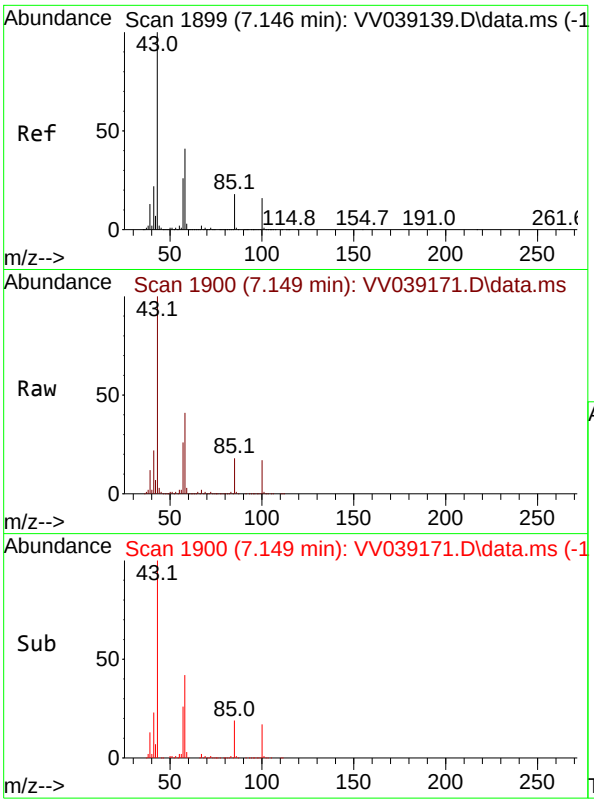


#50
Toluene-d8
Concen: 47.939 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 98 Resp: 1017460

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2



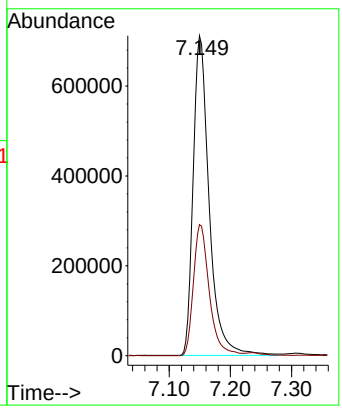


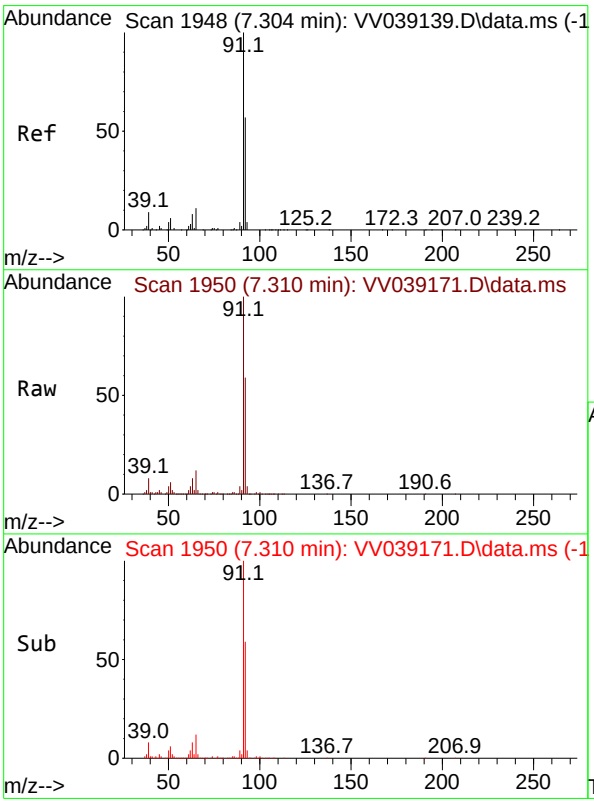
#51
4-Methyl-2-Pentanone
Concen: 108.921 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 43 Resp: 1295291

Ion	Ratio	Lower	Upper
43	100		
58	40.8	32.3	48.5

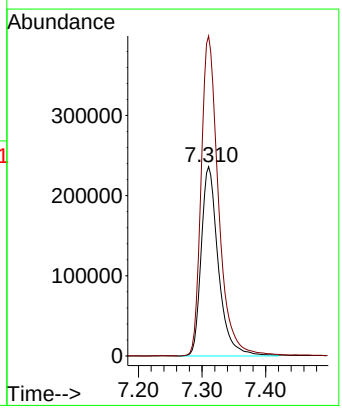


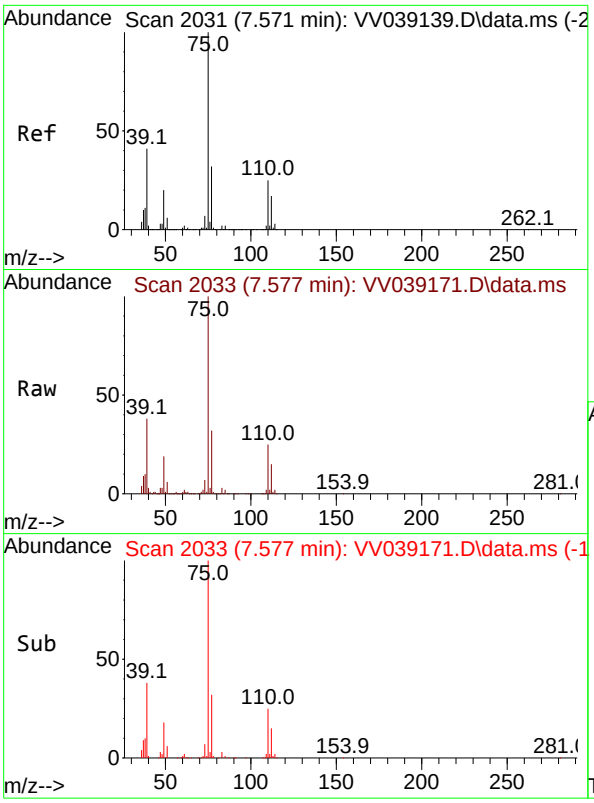


#52
Toluene
Concen: 21.474 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 92 Resp: 442966

Ion	Ratio	Lower	Upper
92	100		
91	171.6	139.2	208.8



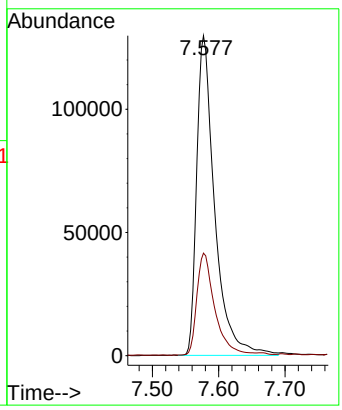


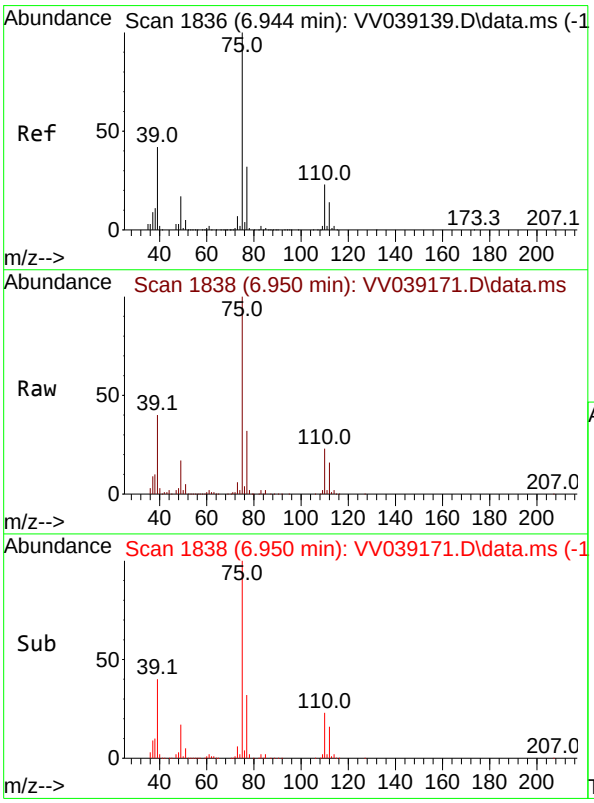
#53
t-1,3-Dichloropropene
Concen: 20.052 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 75 Resp: 244520

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.9	38.9

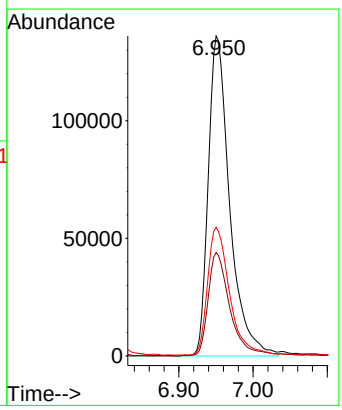


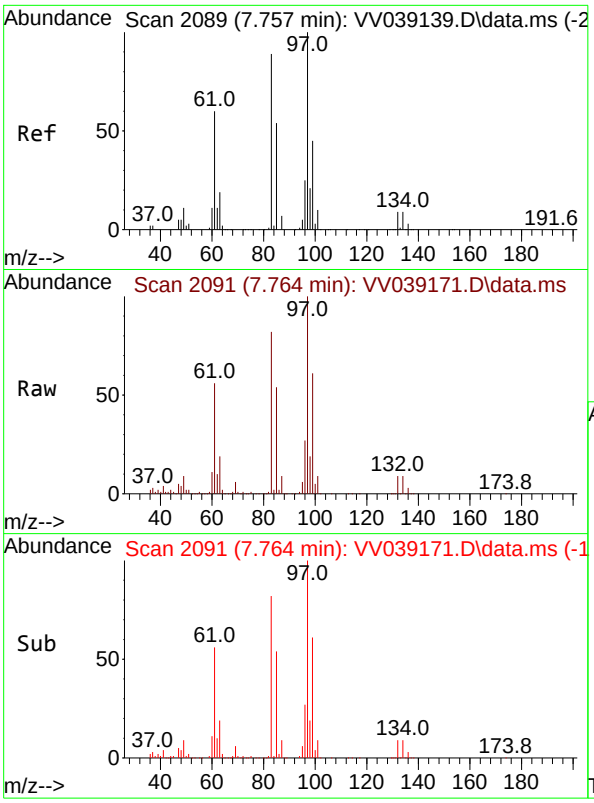


#54
cis-1,3-Dichloropropene
Concen: 20.249 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 272587

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.5	38.3
39	39.9	33.8	50.6



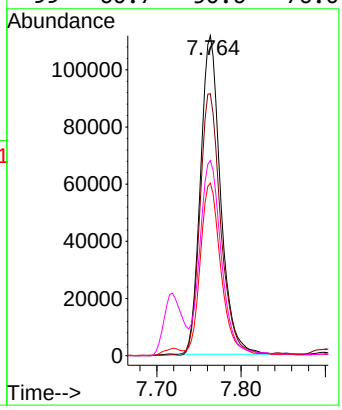


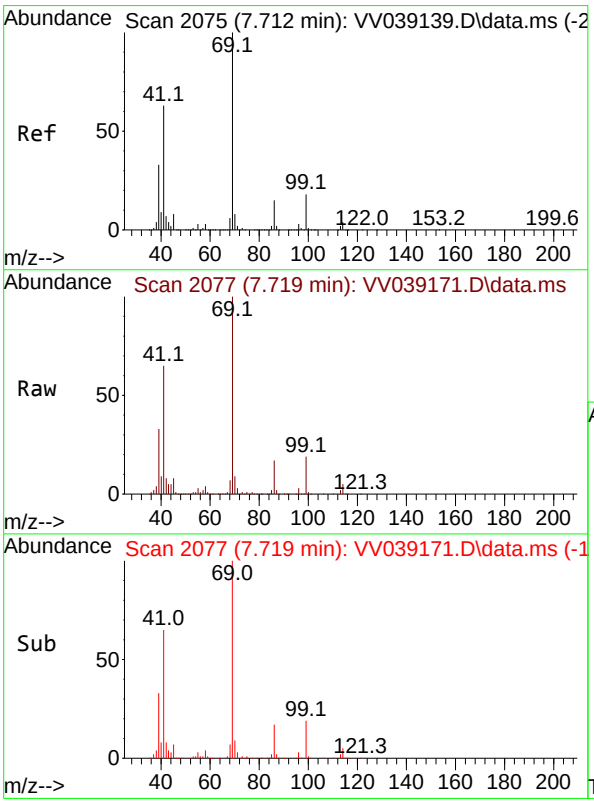
#55
1,1,2-Trichloroethane
Concen: 19.997 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 97 Resp: 184964

Ion	Ratio	Lower	Upper
97	100		
83	82.1	71.1	106.7
85	53.8	44.6	67.0
99	60.7	50.6	76.0

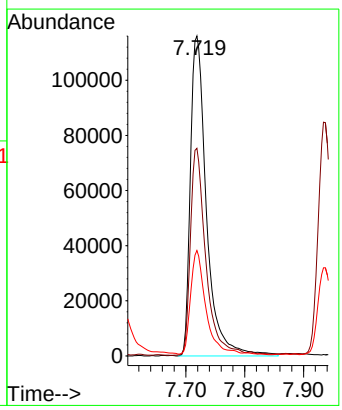


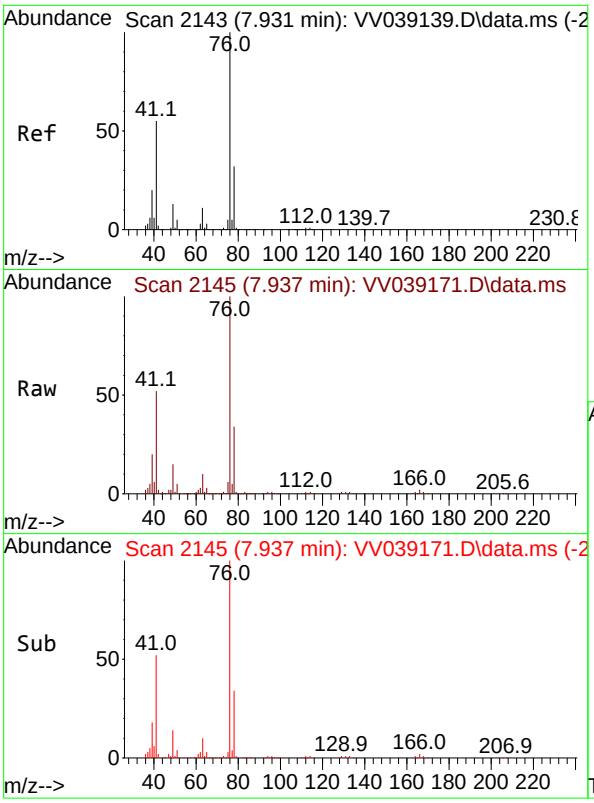


#56
Ethyl methacrylate
Concen: 20.096 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 69 Resp: 220741

Ion	Ratio	Lower	Upper
69	100		
41	61.7	50.7	76.1
39	30.2	26.0	39.0



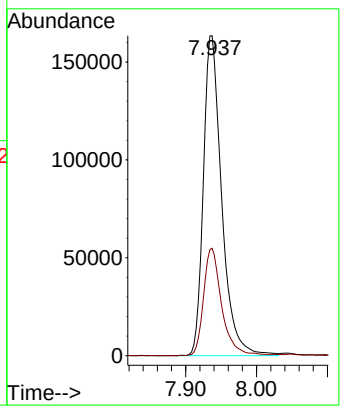


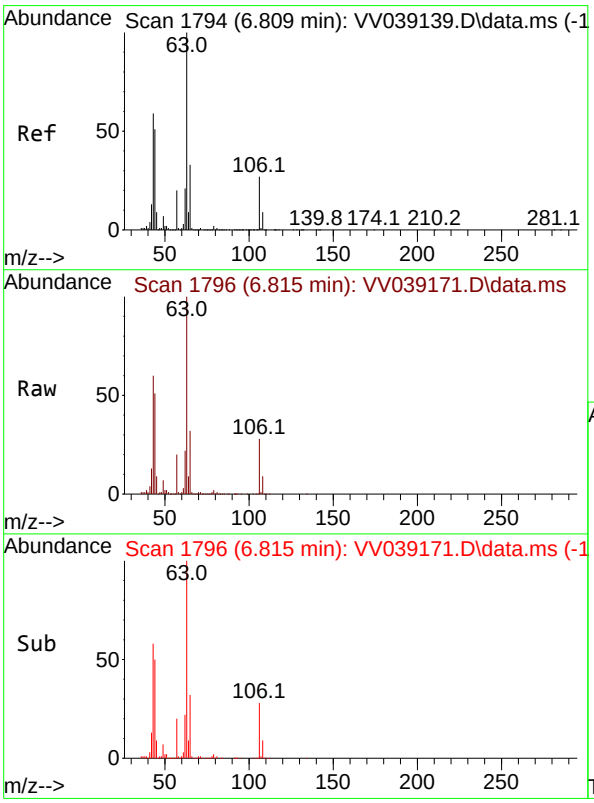
#57
1,3-Dichloropropane
Concen: 20.102 ug/l
RT: 7.937 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 76 Resp: 293432

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.1	39.1

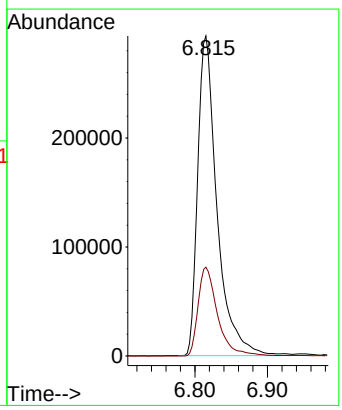


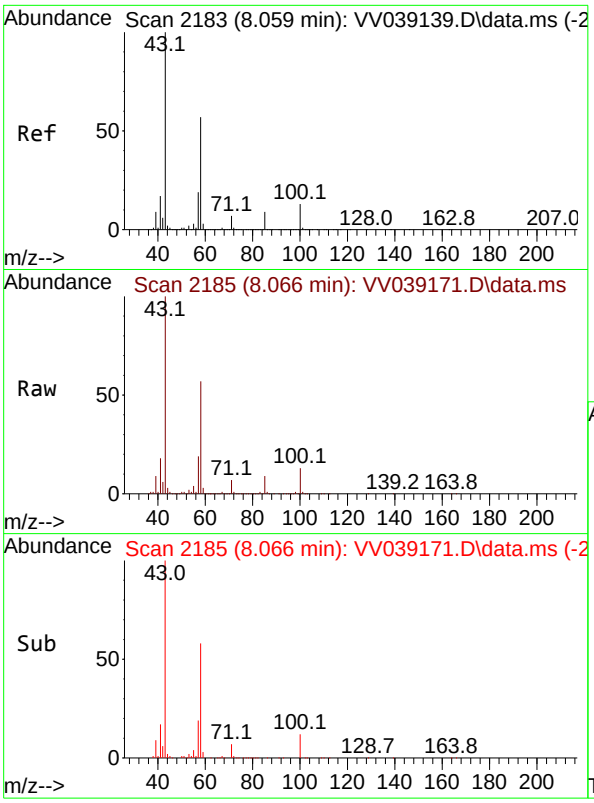


#58
2-Chloroethyl Vinyl ether
Concen: 93.599 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 63 Resp: 541689

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.1	33.1



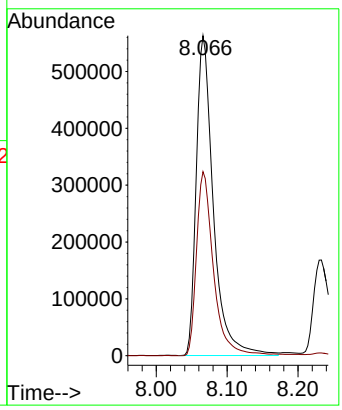


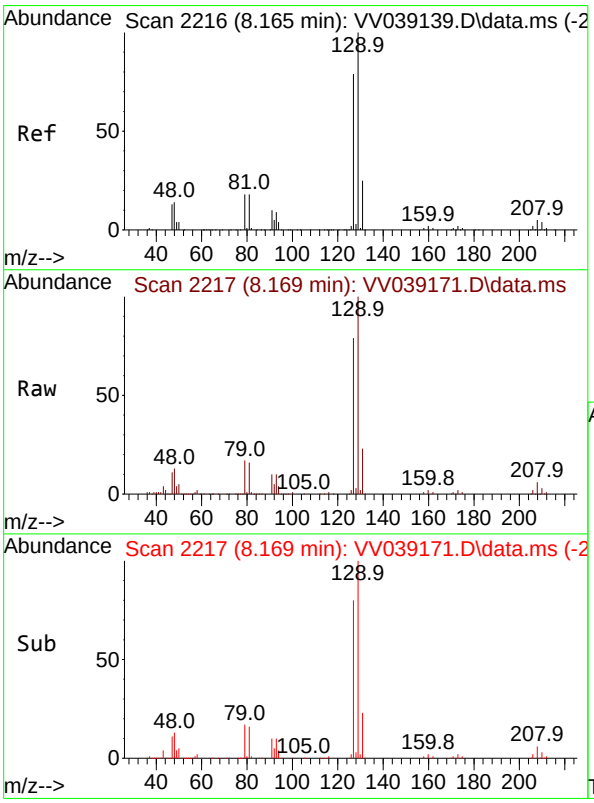
#59
2-Hexanone
Concen: 99.572 ug/l
RT: 8.066 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 43 Resp: 942254

Ion	Ratio	Lower	Upper
43	100		
58	57.6	28.3	85.0

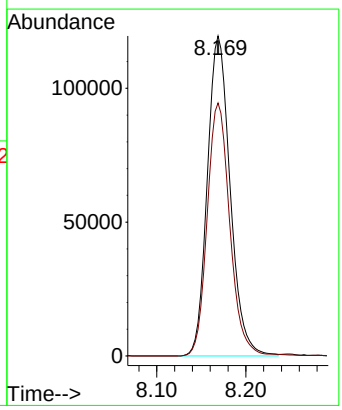


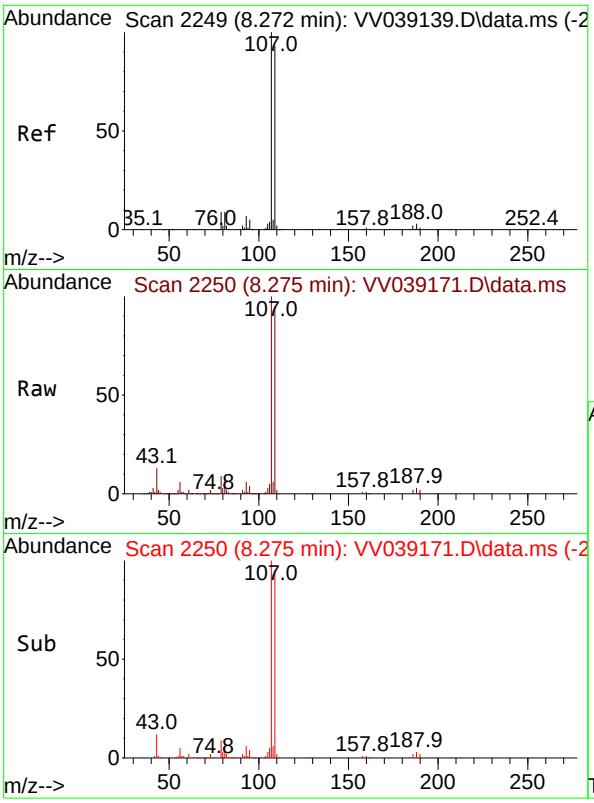


#60
Dibromochloromethane
Concen: 20.190 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:129 Resp: 212792

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.3	117.9



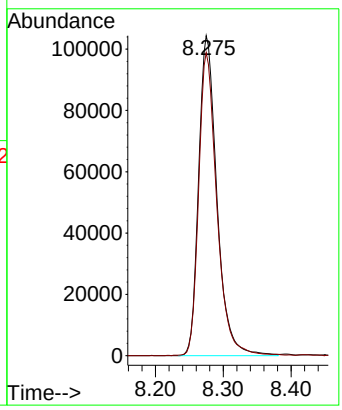


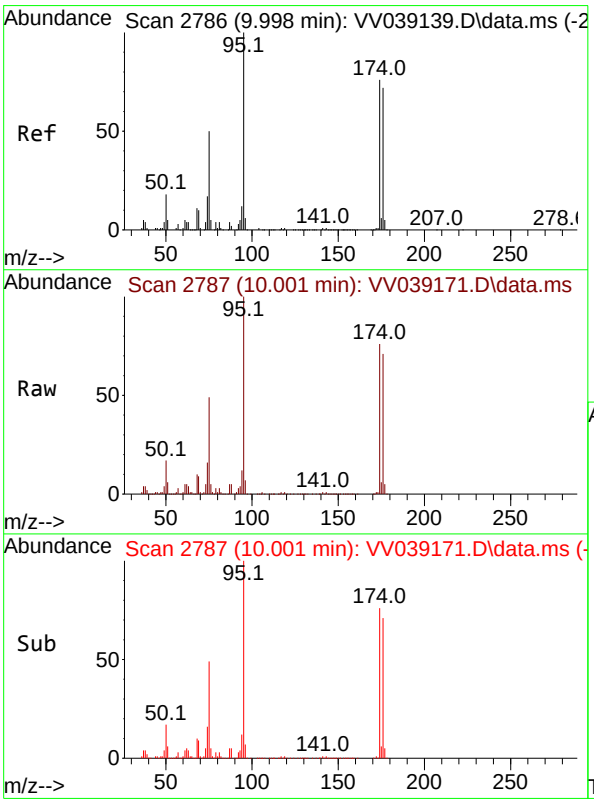
#61
1,2-Dibromoethane
Concen: 20.631 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:107 Resp: 195149

Ion	Ratio	Lower	Upper
107	100		
109	94.1	74.6	112.0

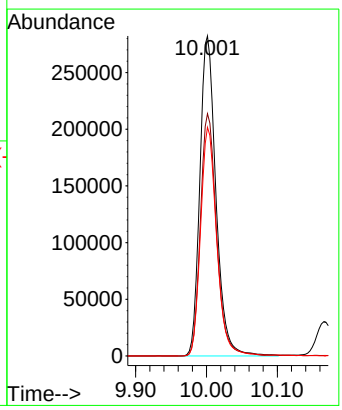


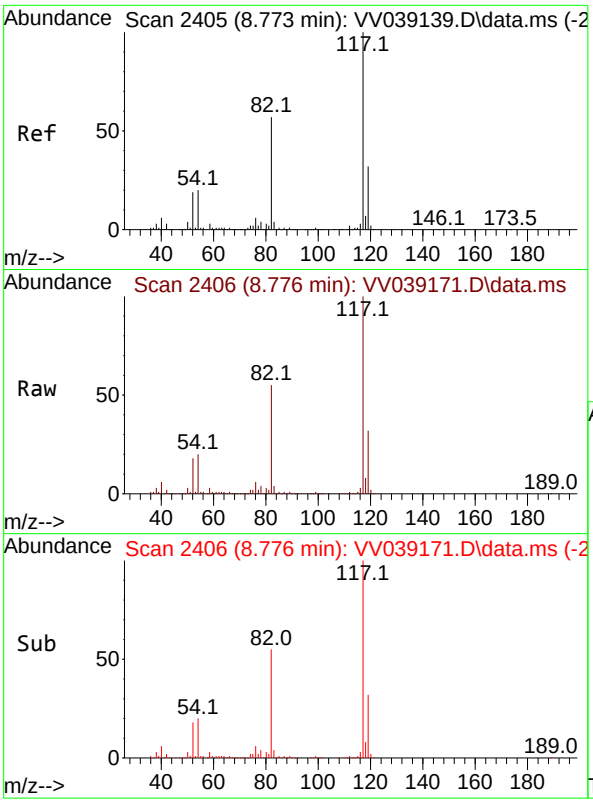


#62
4-Bromofluorobenzene
Concen: 51.168 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 95 Resp: 447073

Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	150.4
176	71.5	0.0	144.2



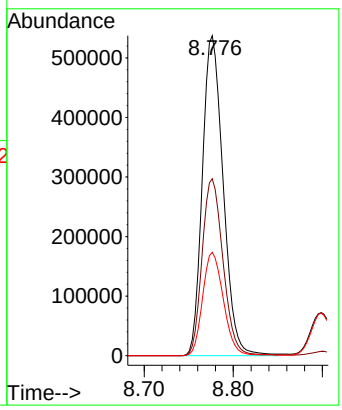


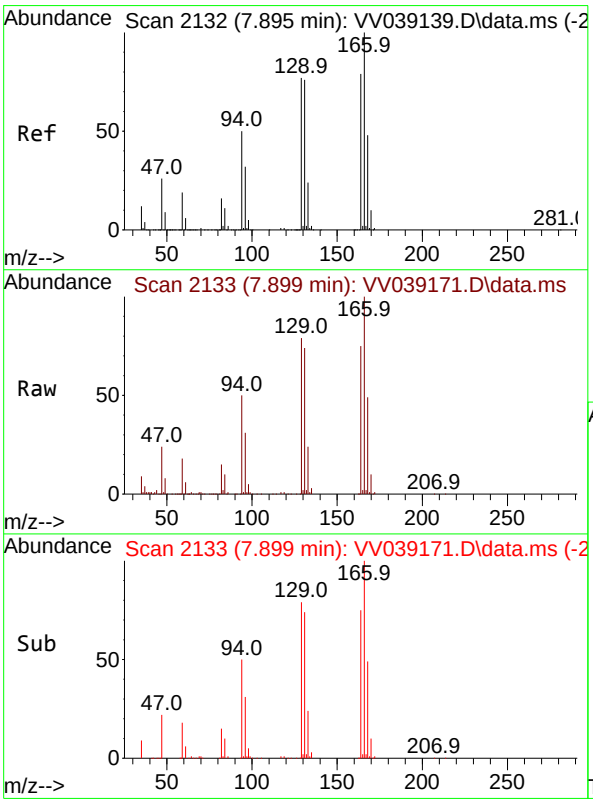
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:117 Resp: 871912

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.4	68.2
119	32.3	25.6	38.4

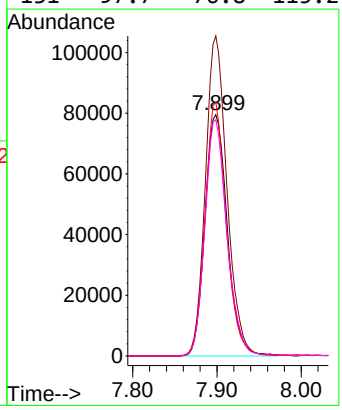


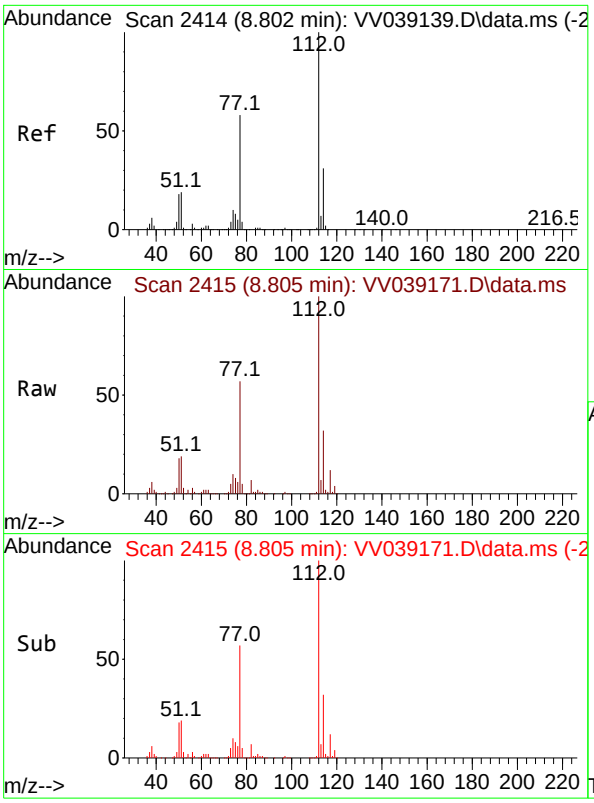


#64
Tetrachloroethene
Concen: 20.157 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:164 Resp: 147205

Ion	Ratio	Lower	Upper
164	100		
166	132.6	101.6	152.4
129	105.2	78.5	117.7
131	97.7	76.8	115.2



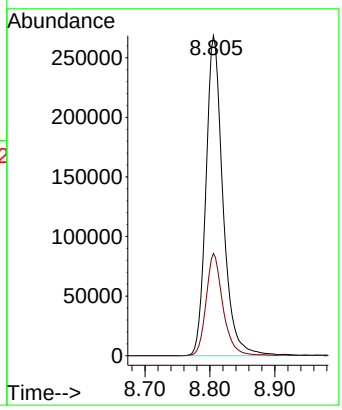


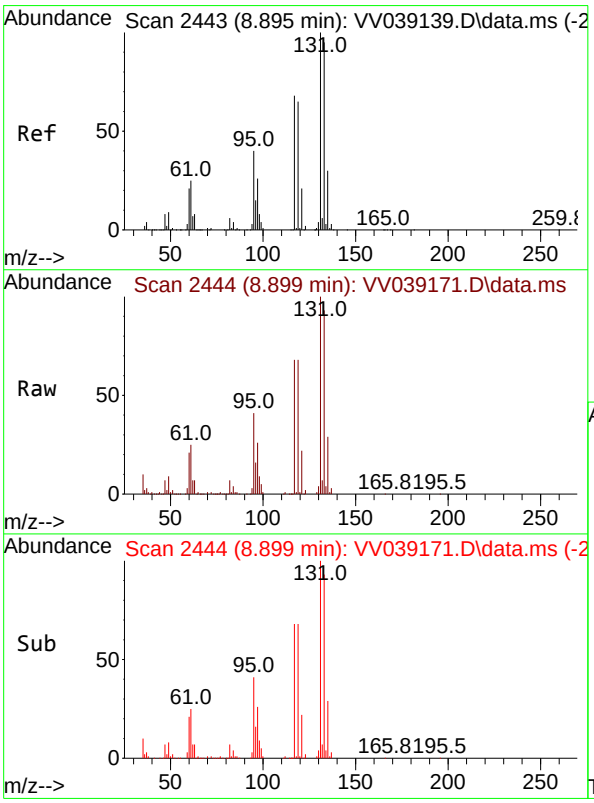
#65
Chlorobenzene
Concen: 20.108 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:112 Resp: 488359

Ion	Ratio	Lower	Upper
112	100		
114	32.0	24.6	37.0

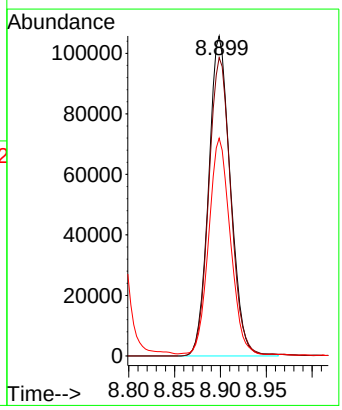


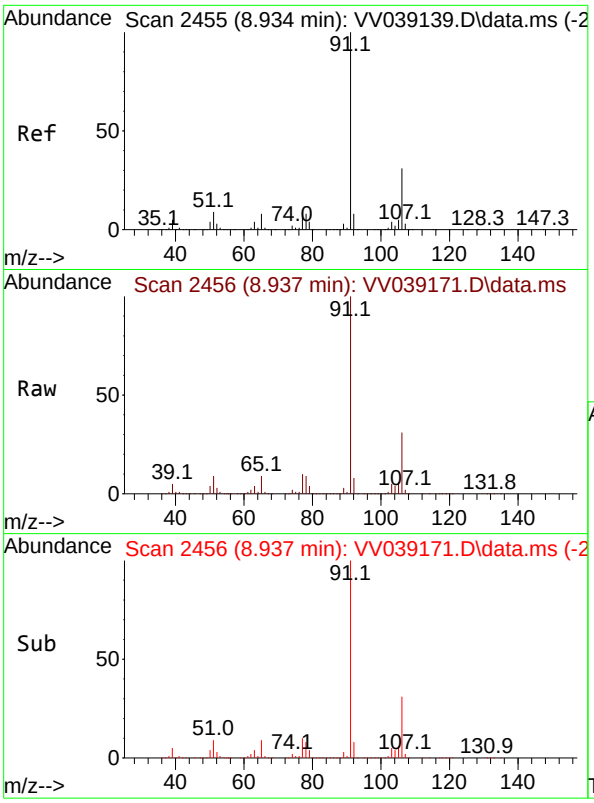


#66
1,1,1,2-Tetrachloroethane
Concen: 19.902 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:131 Resp: 174648

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.3	141.8
119	67.1	33.3	99.8



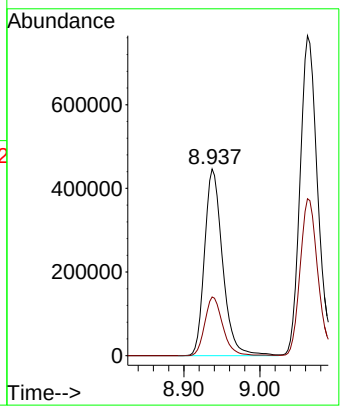


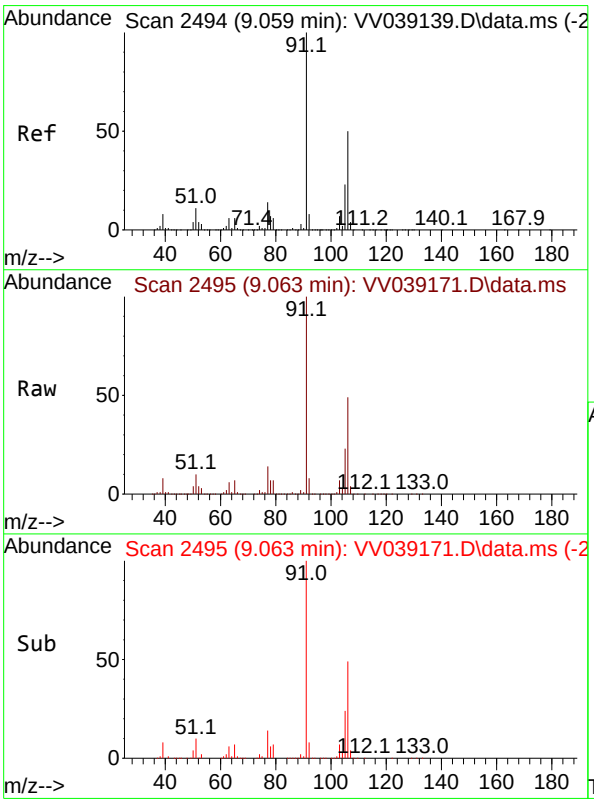
#67
Ethyl Benzene
Concen: 20.032 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 91 Resp: 736424

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.6	37.0

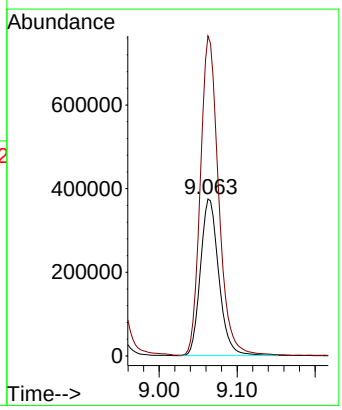


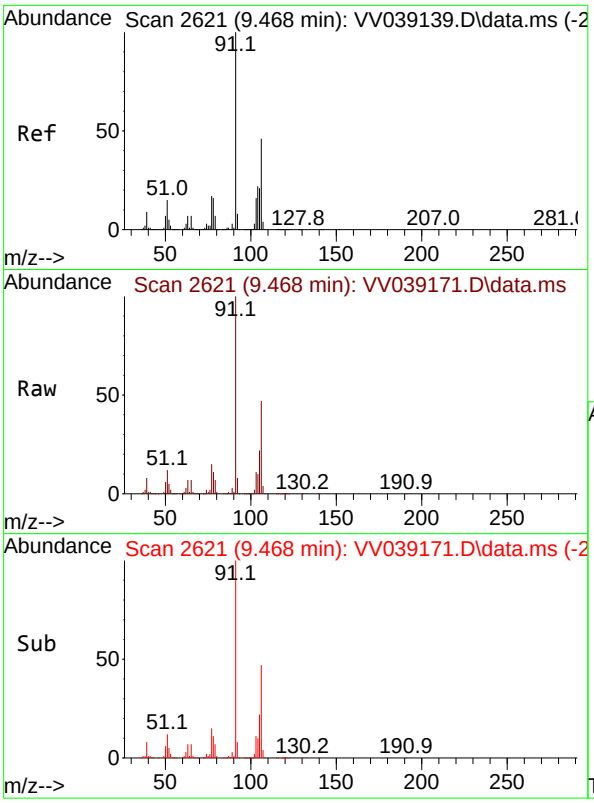


#68
m/p-Xylenes
Concen: 43.097 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:106 Resp: 611502

Ion	Ratio	Lower	Upper
106	100		
91	203.3	162.5	243.7



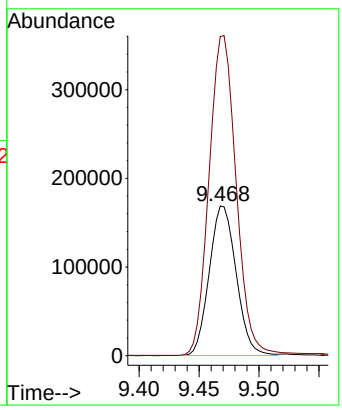


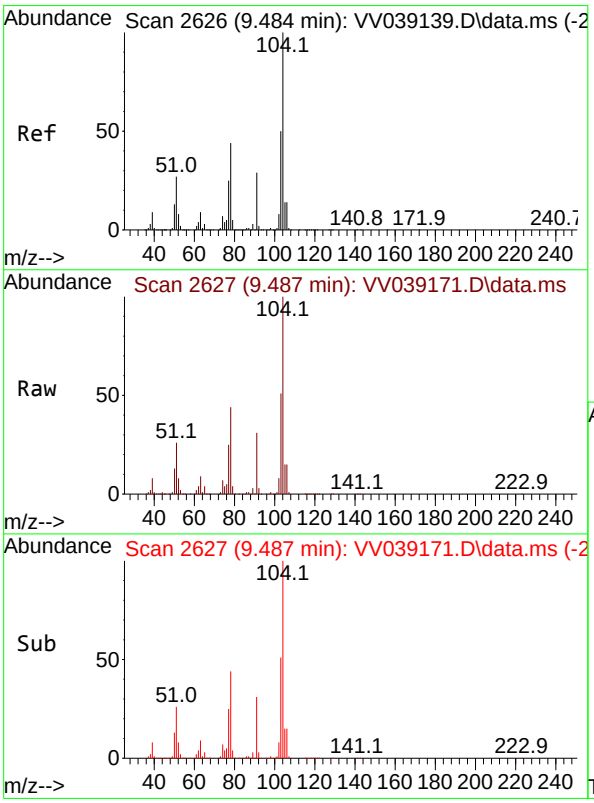
#69
o-Xylene
Concen: 20.955 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:106 Resp: 263271

Ion	Ratio	Lower	Upper
106	100		
91	217.2	109.1	327.3

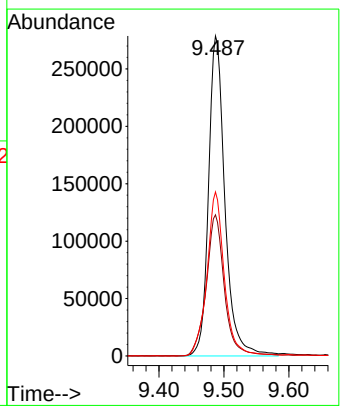


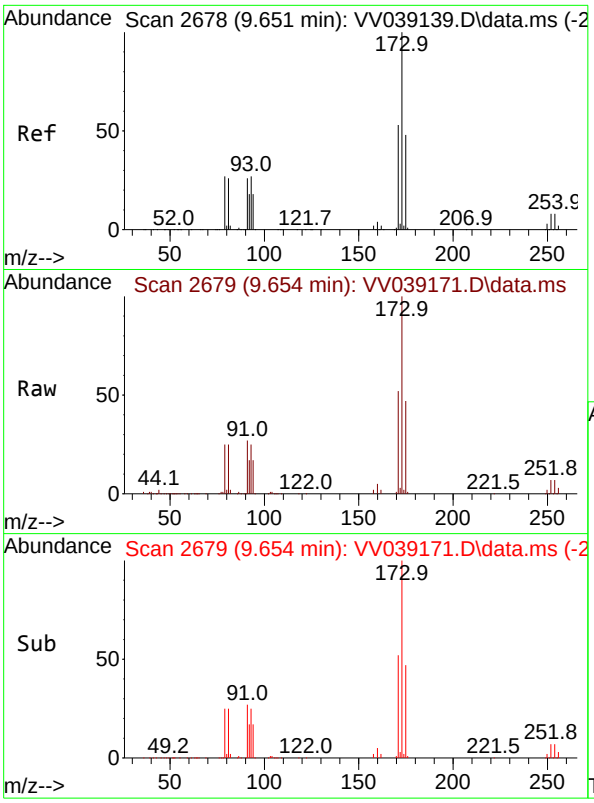


#70
Styrene
Concen: 19.311 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:104 Resp: 489732

Ion	Ratio	Lower	Upper
104	100		
78	48.8	39.8	59.6
103	54.6	43.4	65.2



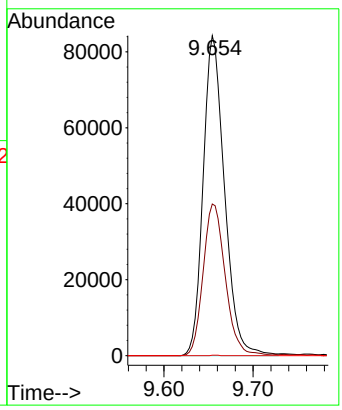


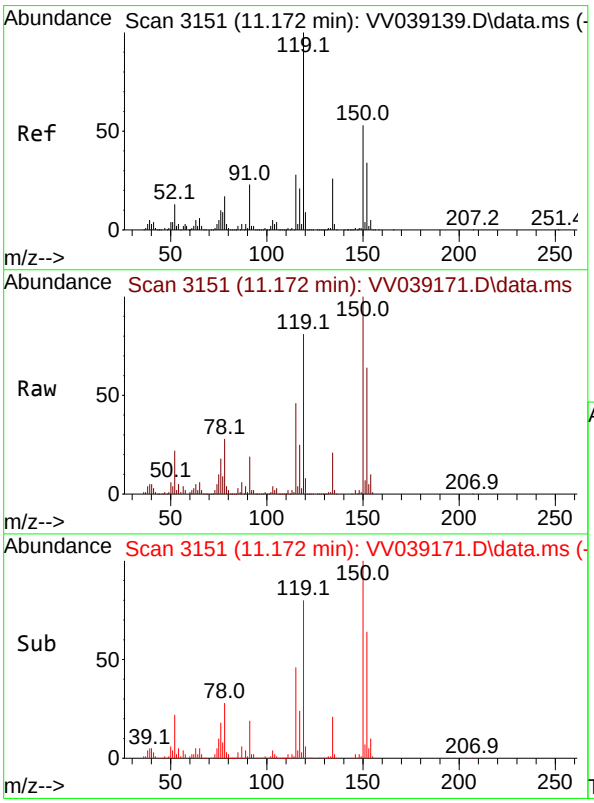
#71
Bromoform
Concen: 20.466 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:173 Resp: 140287

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.7
254	0.1	0.1	0.1#

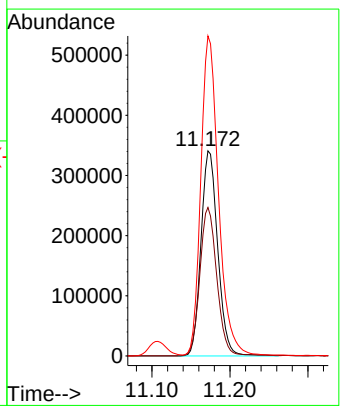


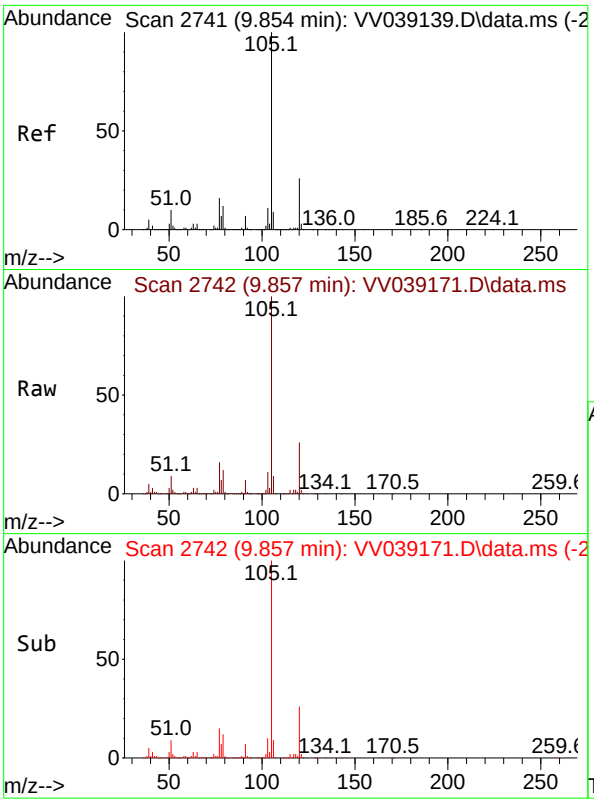


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:152 Resp: 508947

Ion	Ratio	Lower	Upper
152	100		
115	73.3	44.8	134.4
150	163.9	0.0	353.8



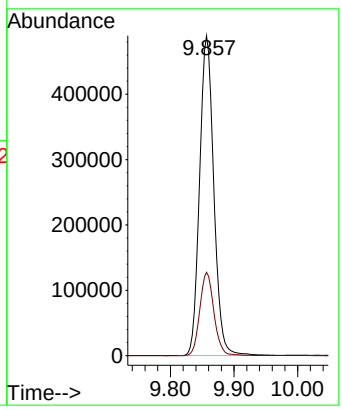


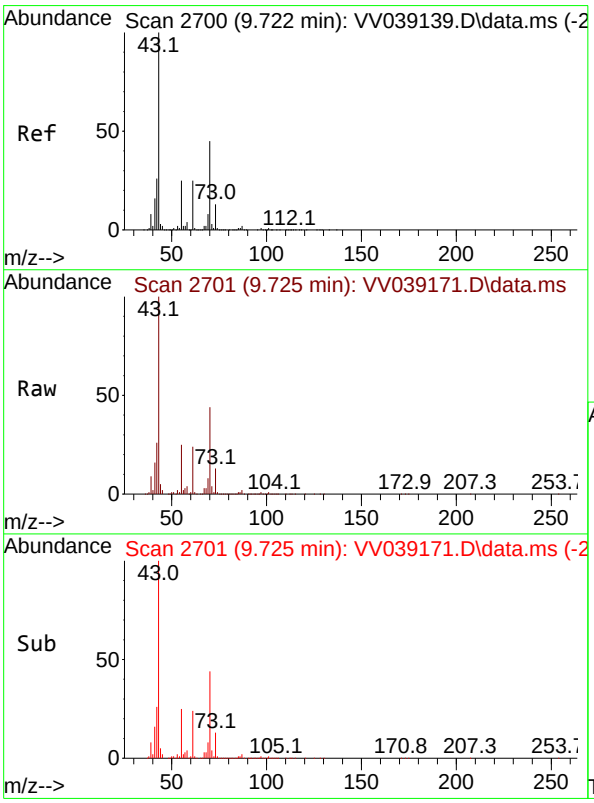
#73
Isopropylbenzene
Concen: 20.575 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:105 Resp: 759505

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.1

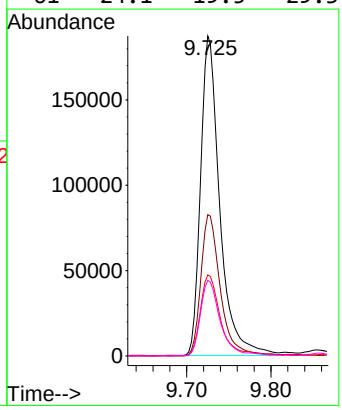


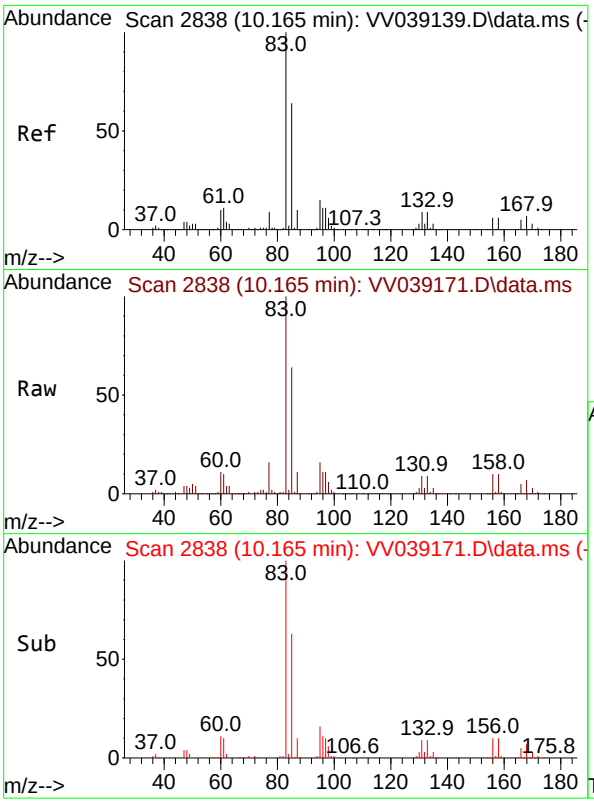


#74
N-amyl acetate
Concen: 20.188 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 43 Resp: 297254

Ion	Ratio	Lower	Upper
43	100		
70	45.3	35.4	53.0
55	26.7	20.6	30.8
61	24.1	19.5	29.3



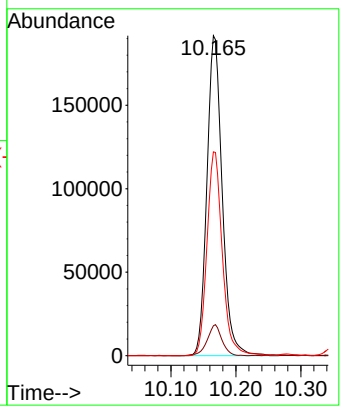


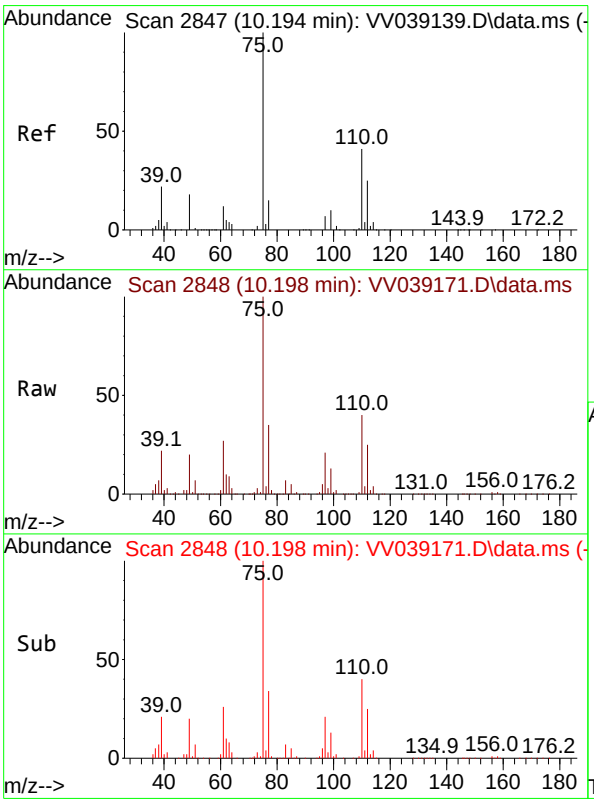
#75
1,1,2,2-Tetrachloroethane
Concen: 19.402 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 83 Resp: 313809

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.7
85	64.0	31.9	95.9

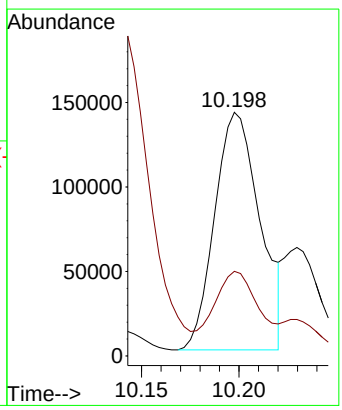


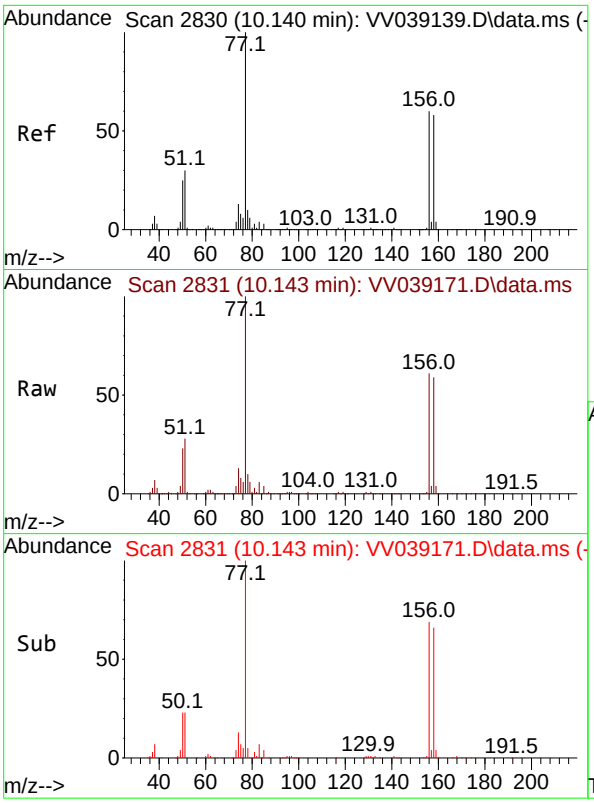


#76
1,2,3-Trichloropropane
Concen: 19.665 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 227880

Ion	Ratio	Lower	Upper
75	100		
77	21.6	11.3	33.8



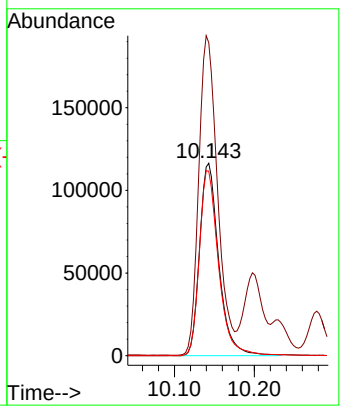


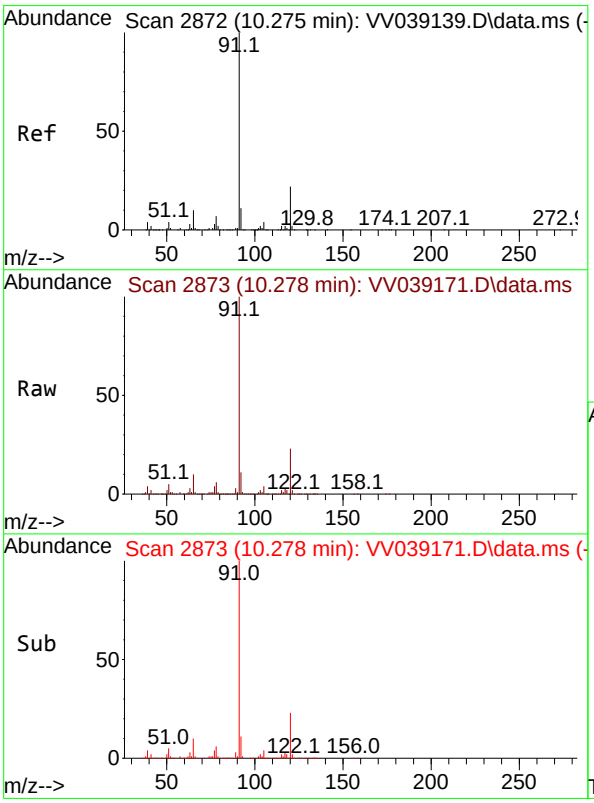
#77
Bromobenzene
Concen: 20.272 ug/l
RT: 10.143 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:156 Resp: 194148

Ion	Ratio	Lower	Upper
156	100		
77	162.2	83.4	250.1
158	96.4	48.8	146.4

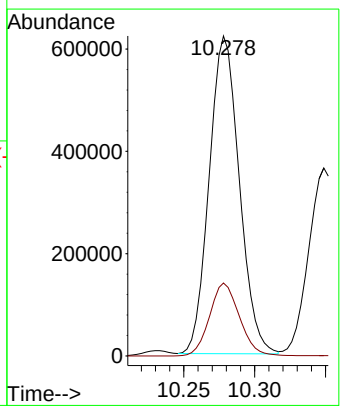


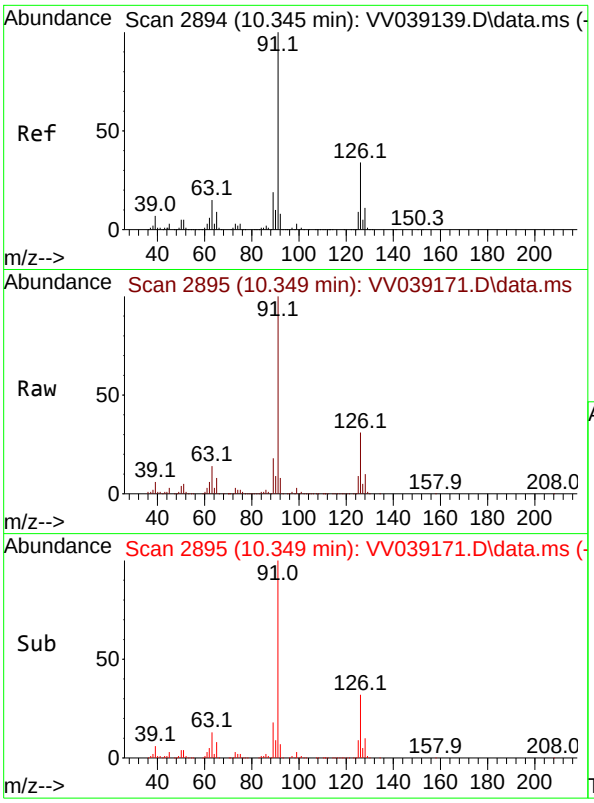


#78
n-propylbenzene
Concen: 20.420 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 91 Resp: 917928

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.3



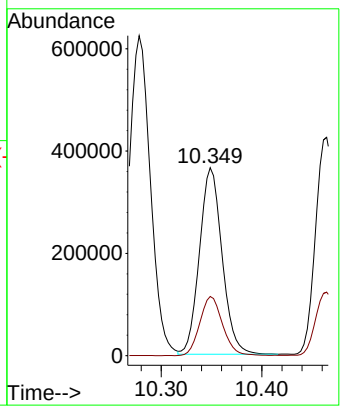


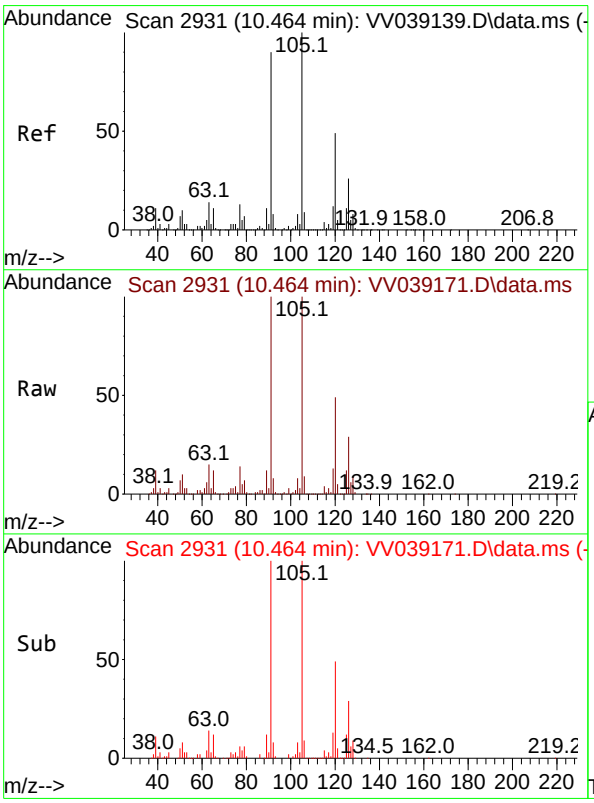
#79
2-Chlorotoluene
Concen: 21.187 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 91 Resp: 569887

Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.7	50.0

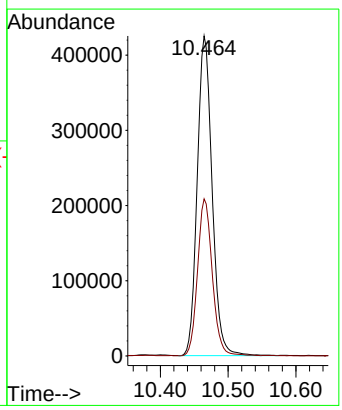


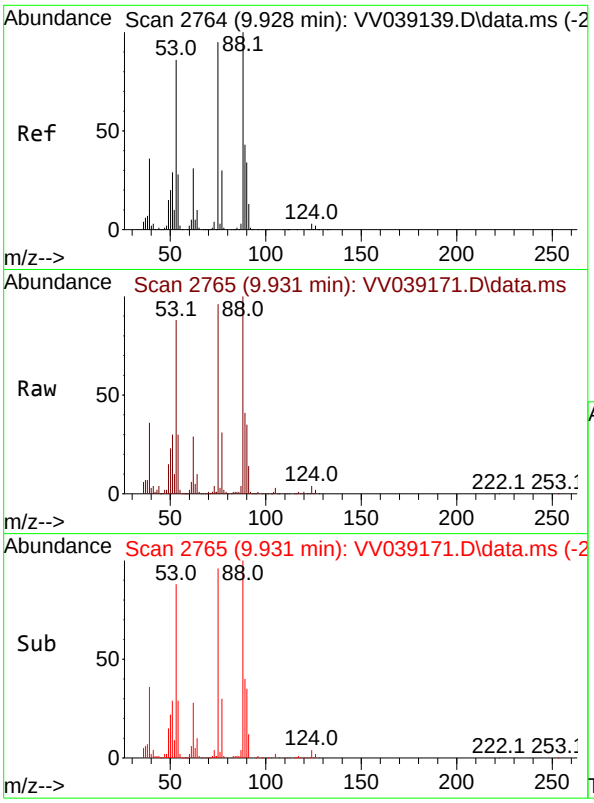


#80
1,3,5-Trimethylbenzene
Concen: 21.165 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:105 Resp: 649406

Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.3	72.8



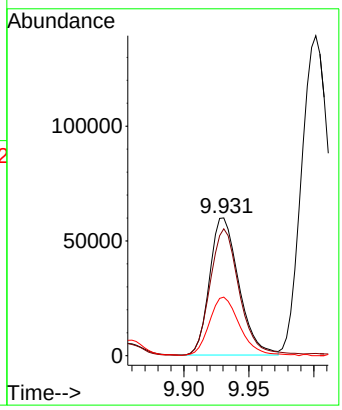


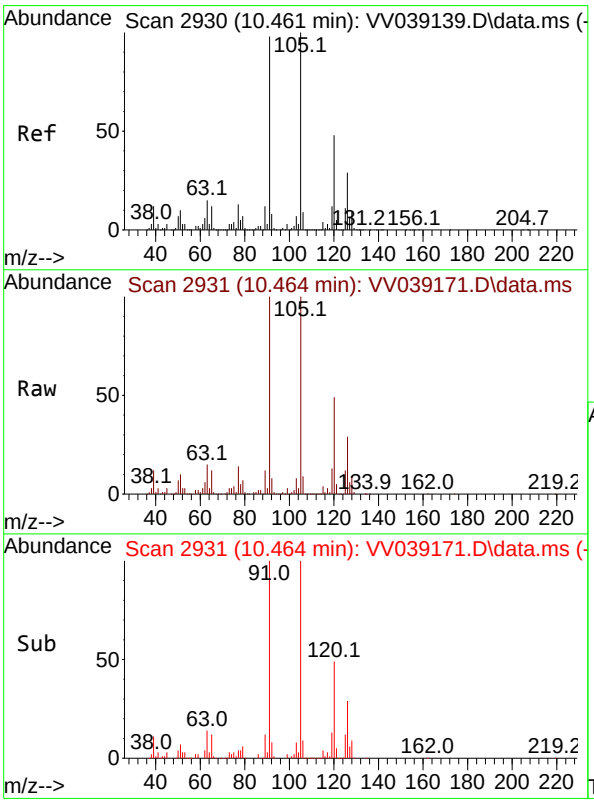
#81
trans-1,4-Dichloro-2-butene
Concen: 19.398 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 75 Resp: 93631

Ion	Ratio	Lower	Upper
75	100		
53	92.0	72.5	108.7
89	44.7	37.2	55.8

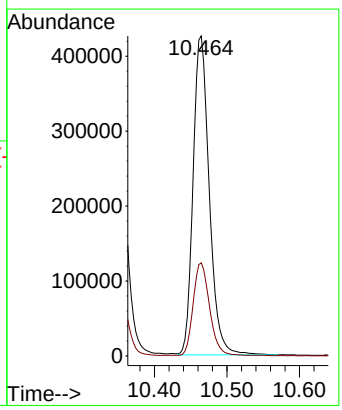


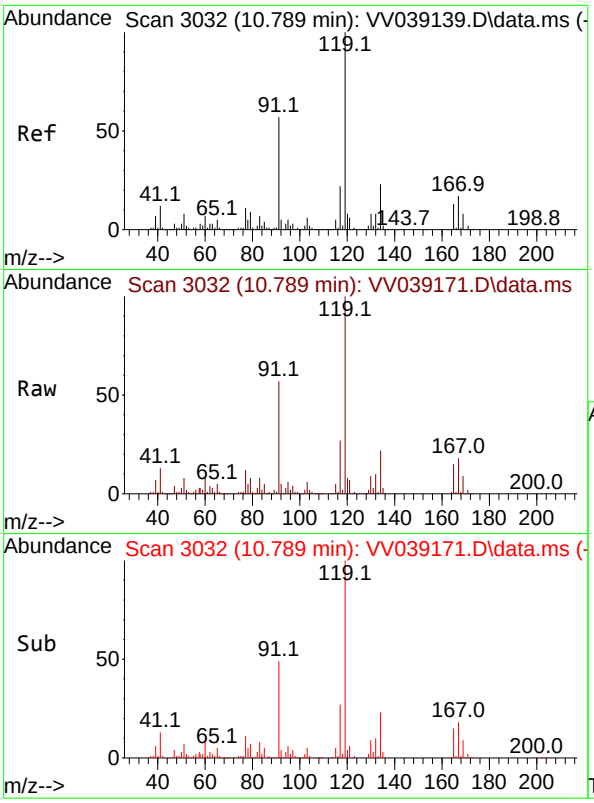


#82
4-Chlorotoluene
Concen: 21.124 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 91 Resp: 658860

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.5	43.6



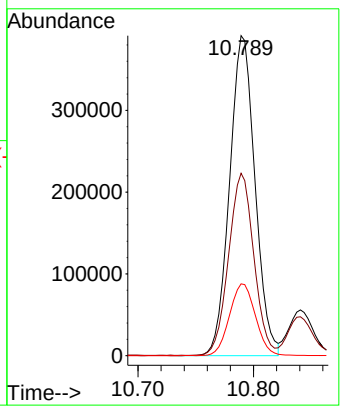


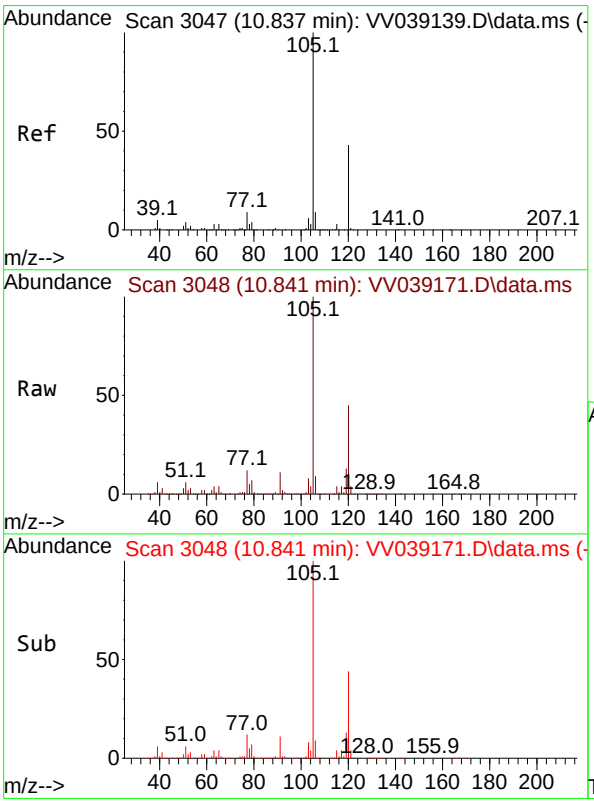
#83
tert-Butylbenzene
Concen: 19.587 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:119 Resp: 599275

Ion	Ratio	Lower	Upper
119	100		
91	56.4	28.5	85.6
134	23.0	11.5	34.4

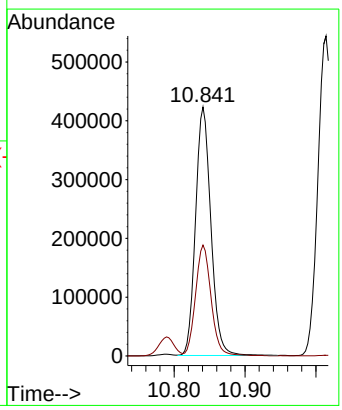


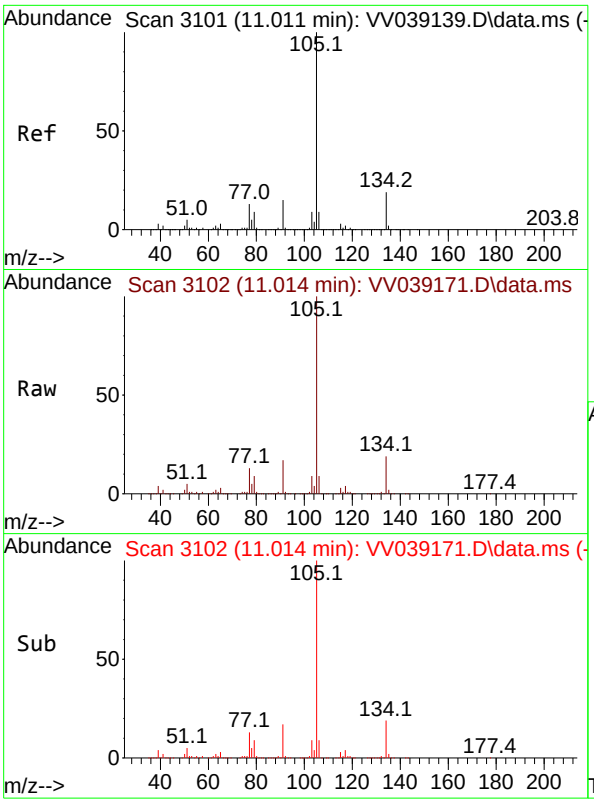


#84
1,2,4-Trimethylbenzene
Concen: 21.301 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:105 Resp: 634517

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.4	67.2



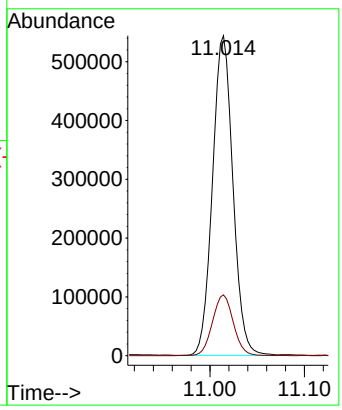


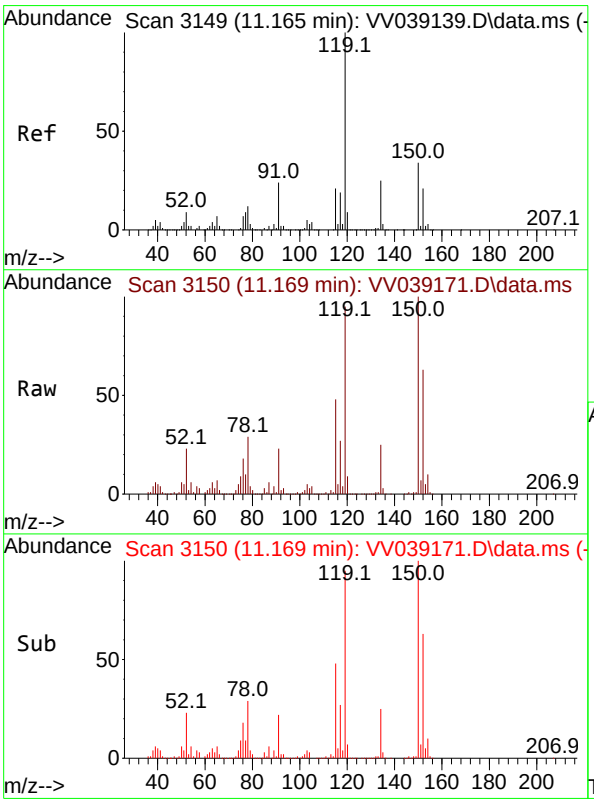
#85
sec-Butylbenzene
Concen: 20.078 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:105 Resp: 814764

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.6	28.8

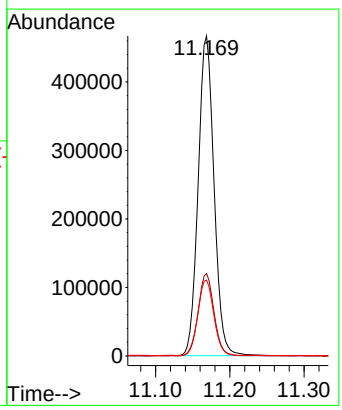


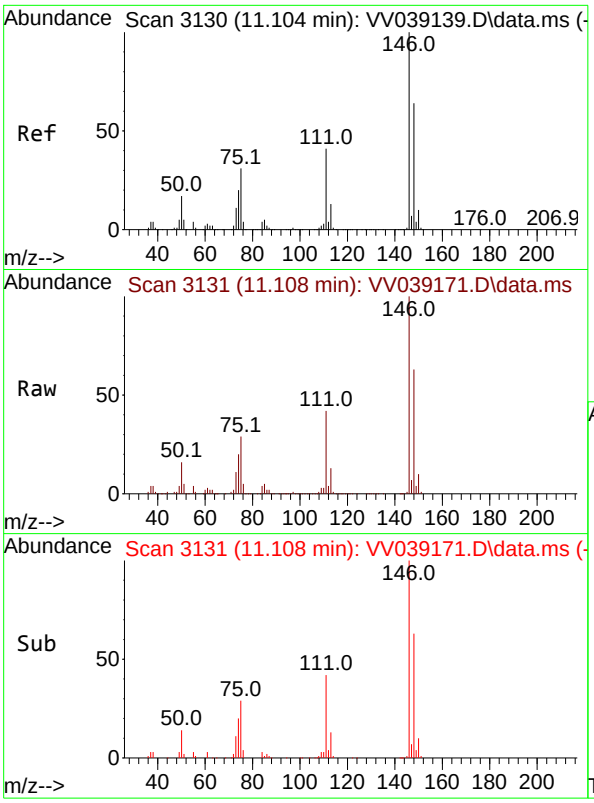


#86
p-Isopropyltoluene
Concen: 20.505 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:119 Resp: 692579

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.7	38.0
91	23.8	12.0	36.1



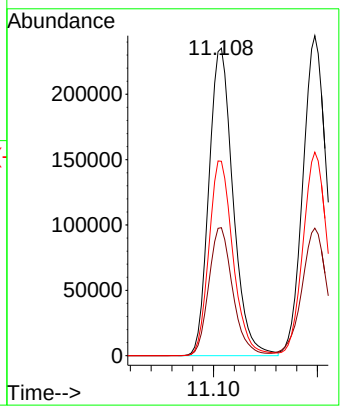


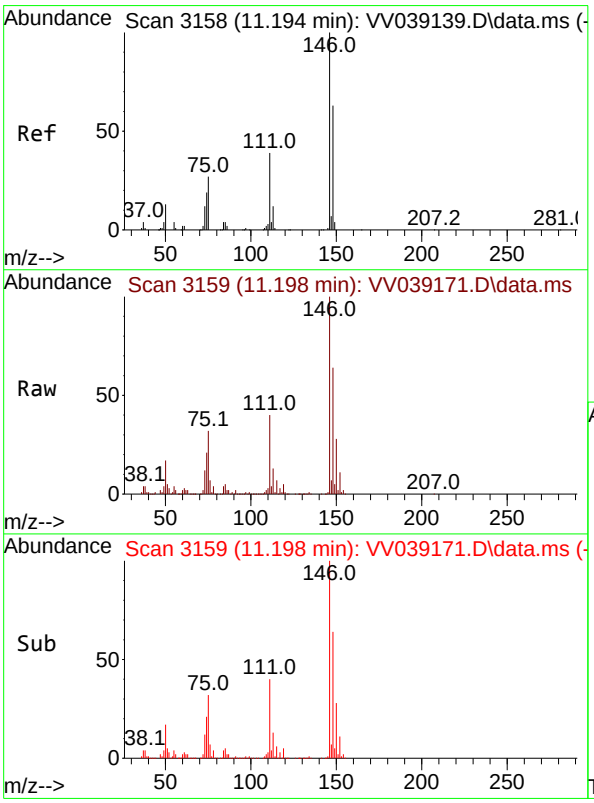
#87
1,3-Dichlorobenzene
Concen: 19.629 ug/l
RT: 11.108 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:146 Resp: 380476

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.9	62.8
148	63.4	31.8	95.3

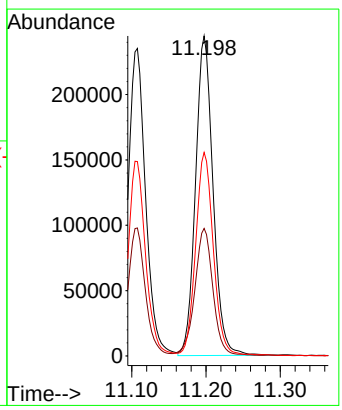


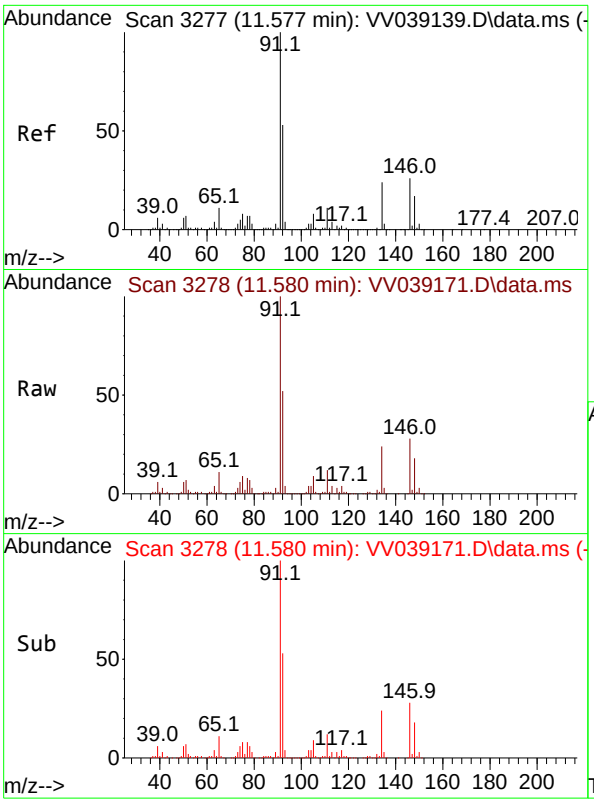


#88
1,4-Dichlorobenzene
Concen: 18.854 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:146 Resp: 400938

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.3	60.8
148	63.3	31.4	94.2



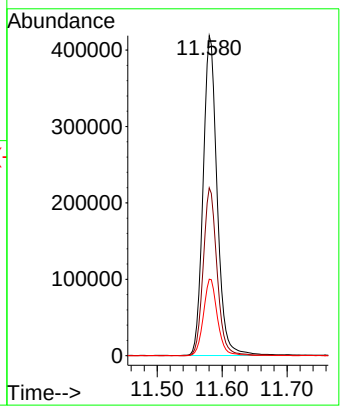


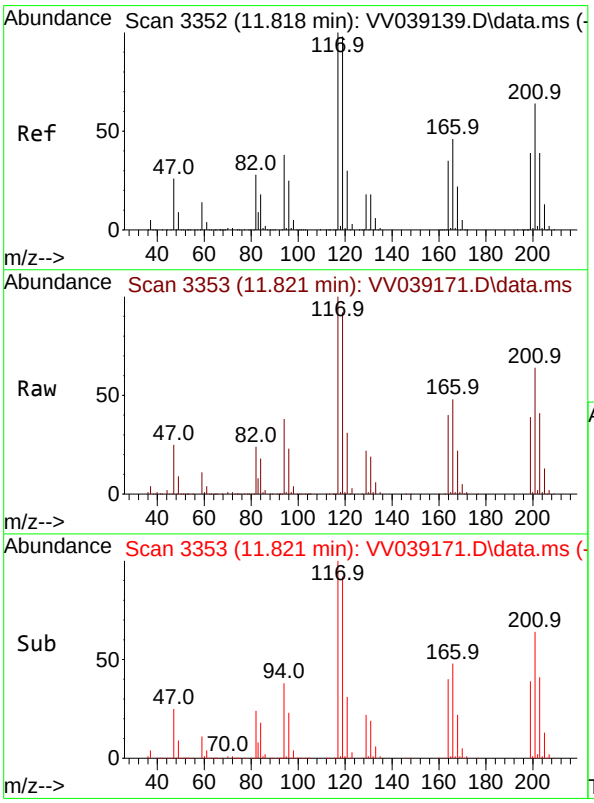
#89
n-Butylbenzene
Concen: 19.528 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion: 91 Resp: 629906

Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.6	79.8
134	23.9	12.1	36.3

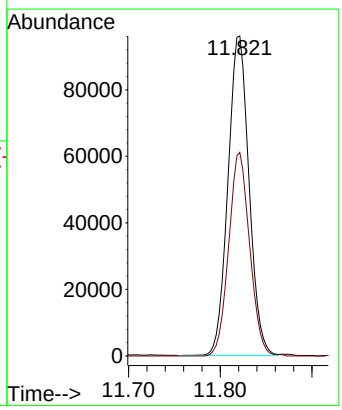


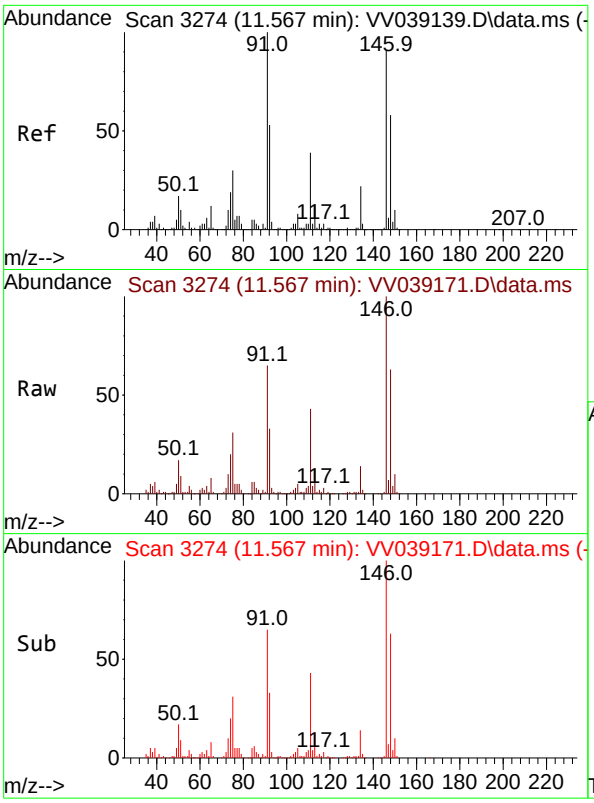


#90
Hexachloroethane
Concen: 18.396 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:117 Resp: 153004

Ion	Ratio	Lower	Upper
117	100		
201	63.4	32.3	96.8



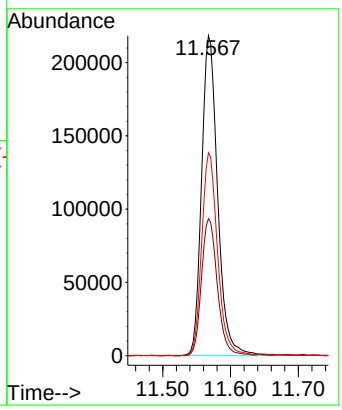


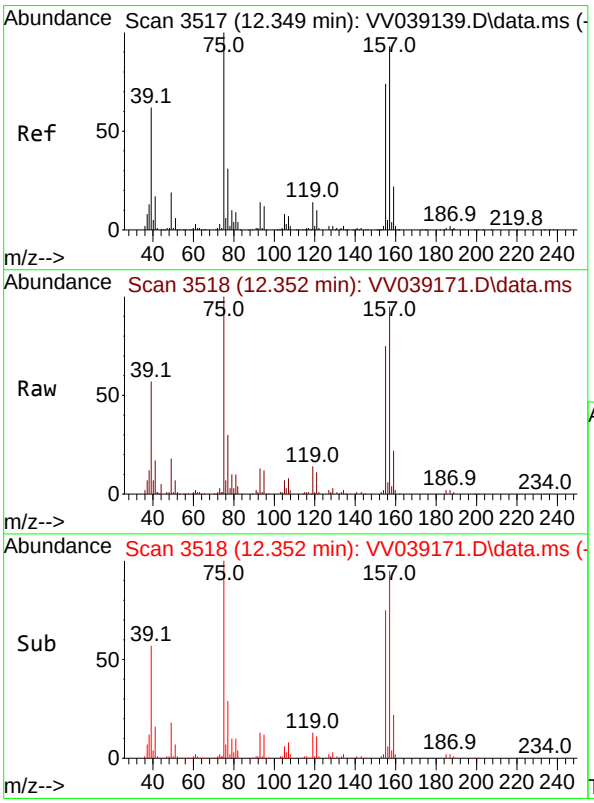
#91
1,2-Dichlorobenzene
Concen: 19.846 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:146 Resp: 359391

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	62.9	31.9	95.7

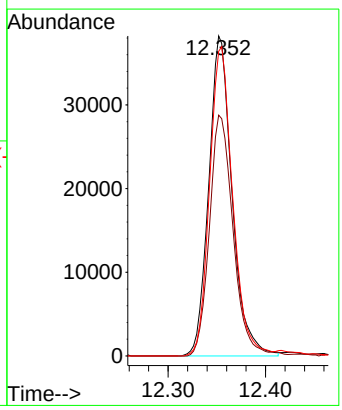


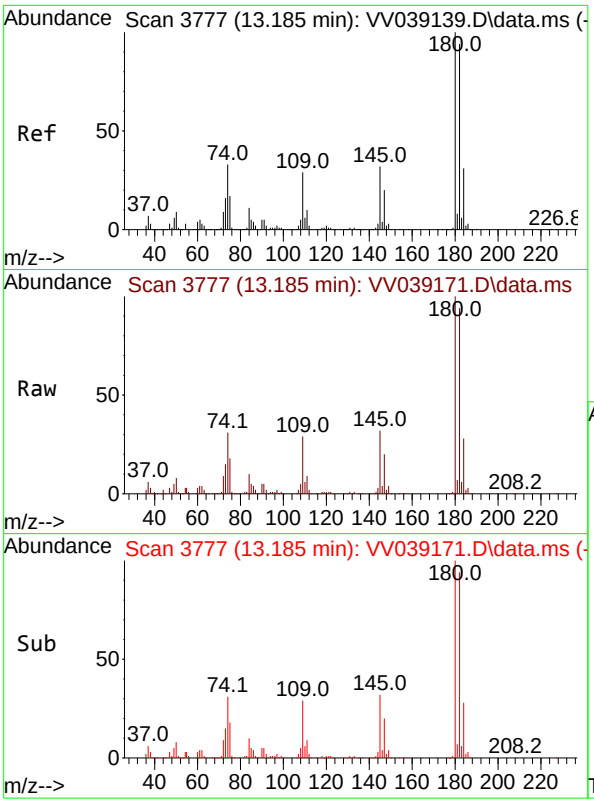


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.105 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 63577

Ion	Ratio	Lower	Upper
75	100		
155	76.5	38.6	115.8
157	95.7	49.5	148.3



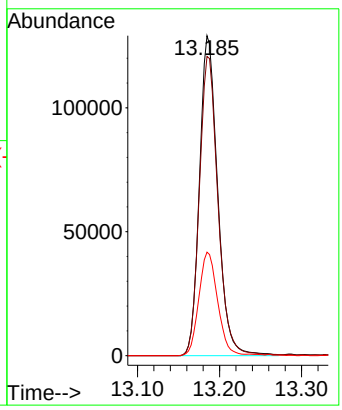


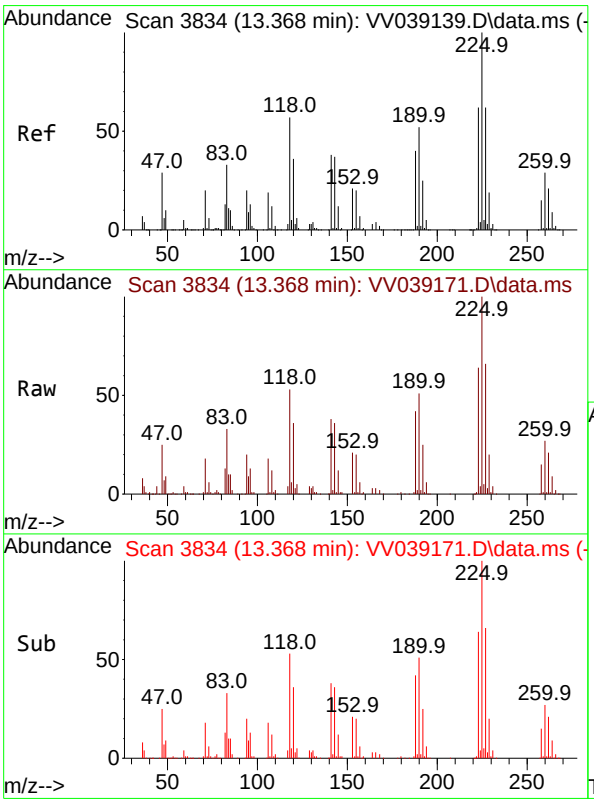
#93
1,2,4-Trichlorobenzene
Concen: 19.155 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:180 Resp: 198844

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.1	141.4
145	33.6	16.3	48.8

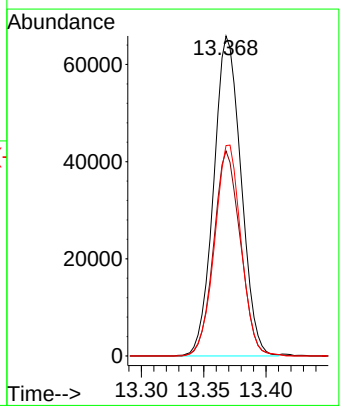


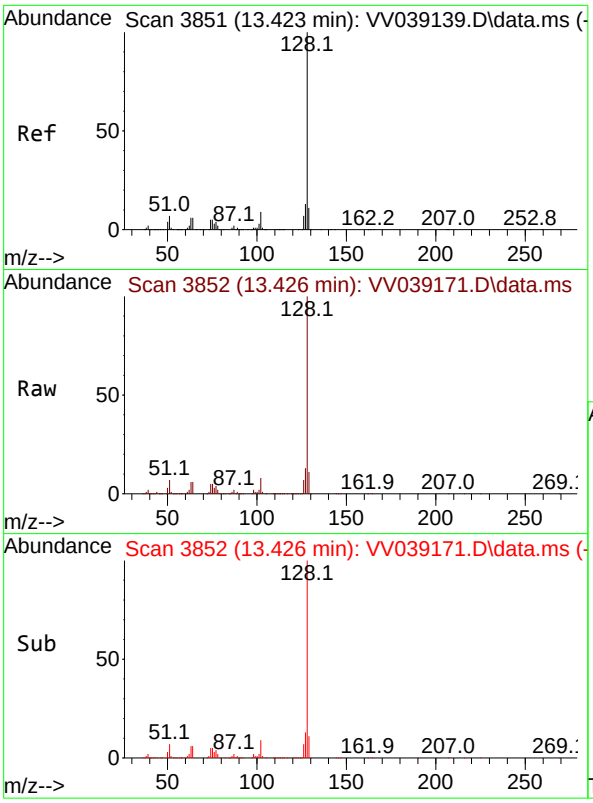


#94
Hexachlorobutadiene
Concen: 18.672 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:225 Resp: 100713

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.6	94.7
227	64.0	31.8	95.4



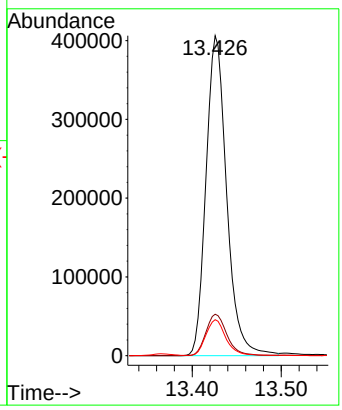


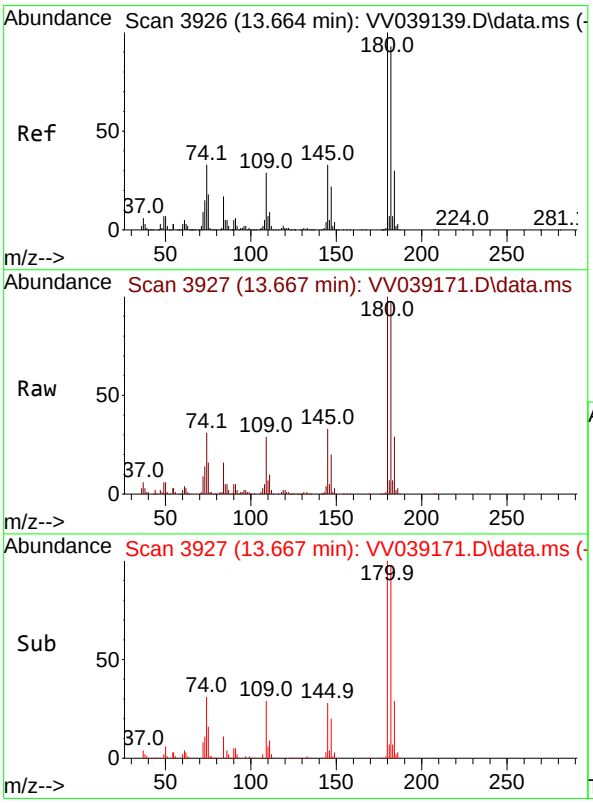
#95
Naphthalene
Concen: 19.499 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Instrument :
MSVOA_V
ClientSampleId :
VV0925WBS01

Tgt Ion:128 Resp: 654241

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	10.8	8.6	13.0

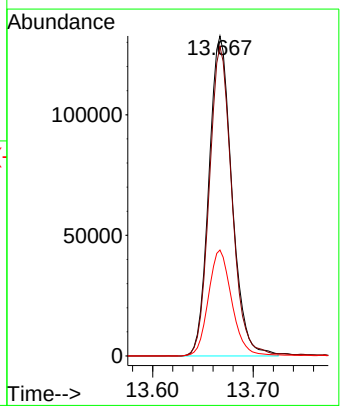




#96
1,2,3-Trichlorobenzene
Concen: 19.856 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:180 Resp: 210809

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.9	140.8
145	34.0	17.0	51.0



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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0926WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0926WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039201.D	1	09/26/25 10:49	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.8		0.22	1.00	ug/L
74-87-3	Chloromethane	17.6		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.7		0.26	1.00	ug/L
74-83-9	Bromomethane	18.5		1.40	5.00	ug/L
75-00-3	Chloroethane	19.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
67-64-1	Acetone	86.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	17.9		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.9		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.9		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.7		1.50	5.00	ug/L
78-93-3	2-Butanone	90.9		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.1		0.22	1.00	ug/L
67-66-3	Chloroform	18.4		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.8		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.0		0.16	1.00	ug/L
71-43-2	Benzene	19.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.7		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.9		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	20.3		0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0926WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0926WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039201.D	1	09/26/25 10:49	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.3		0.21	1.00	ug/L
591-78-6	2-Hexanone	92.5		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	19.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.5		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.3		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	41.8		0.24	2.00	ug/L
95-47-6	o-Xylene	20.2		0.12	1.00	ug/L
100-42-5	Styrene	18.8		0.15	1.00	ug/L
75-25-2	Bromoform	20.4		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.1		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.3		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.3		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.4		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	50.2		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		77 - 121	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	545000	4.6			
540-36-3	1,4-Difluorobenzene	872000	5.532			
3114-55-4	Chlorobenzene-d5	835000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	491000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0926WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0926WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039201.D	1	09/26/25 10:49	VV092625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	545170	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	871681	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	834845	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	490803	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	370387	46.942	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 93.880%			
35) Dibromofluoromethane	4.500	113	366158	52.251	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 104.500%			
50) Toluene-d8	7.236	98	1033075	50.194	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 100.380%			
62) 4-Bromofluorobenzene	10.002	95	469175	55.374	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 110.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	154039	17.849	ug/l	98
3) Chloromethane	1.227	50	163364	17.633	ug/l	100
4) Vinyl Chloride	1.294	62	185615	18.714	ug/l	99
5) Bromomethane	1.497	94	115593	18.487	ug/l	100
6) Chloroethane	1.561	64	119943	19.255	ug/l	100
7) Trichlorofluoromethane	1.725	101	273170	19.023	ug/l	98
8) Diethyl Ether	1.918	74	99752	18.712	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.082	101	160752	18.814	ug/l	97
10) Methyl Iodide	2.198	142	144299	17.735	ug/l	99
11) Tert butyl alcohol	2.568	59	169988	101.934	ug/l	98
12) 1,1-Dichloroethene	2.082	96	158225	19.249	ug/l	92
13) Acrolein	2.008	56	32871	113.596	ug/l	93
14) Allyl chloride	2.356	41	272293	18.545	ug/l	94
15) Acrylonitrile	2.674	53	500998	93.717	ug/l	99
16) Acetone	2.121	43	453436	86.377	ug/l	97
17) Carbon Disulfide	2.253	76	451210	17.949	ug/l	100
18) Methyl Acetate	2.378	43	232213	19.863	ug/l	96
19) Methyl tert-butyl Ether	2.712	73	503956	19.240	ug/l	99
20) Methylene Chloride	2.455	84	182887	19.906	ug/l	93
21) trans-1,2-Dichloroethene	2.703	96	167785	19.174	ug/l	97
22) Diisopropyl ether	3.217	45	504159	17.947	ug/l	92
23) Vinyl Acetate	3.188	43	2213428	90.069	ug/l	98
24) 1,1-Dichloroethane	3.118	63	317281	18.469	ug/l	100
25) 2-Butanone	3.870	43	574606	90.944	ug/l	99
26) 2,2-Dichloropropane	3.809	77	251937	16.540	ug/l	98
27) cis-1,2-Dichloroethene	3.818	96	180565	18.710	ug/l	98
28) Bromochloromethane	4.146	49	145186	19.144	ug/l	89
29) Tetrahydrofuran	4.240	42	369264	93.372	ug/l	97
30) Chloroform	4.278	83	329719	18.380	ug/l	100
31) Cyclohexane	4.584	56	235441	16.730	ug/l	98
32) 1,1,1-Trichloroethane	4.510	97	277050	17.839	ug/l	97
36) 1,1-Dichloropropene	4.744	75	199480	18.828	ug/l	99
37) Ethyl Acetate	3.982	43	227906	17.728	ug/l	98
38) Carbon Tetrachloride	4.732	117	233151	18.006	ug/l	98
39) Methylcyclohexane	6.047	83	217201	16.976	ug/l	98
40) Benzene	5.008	78	654407	18.968	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.163	41	96114	17.814 ug/l	93
42) 1,2-Dichloroethane	5.040	62	223503	18.489 ug/l	98
43) Isopropyl Acetate	5.195	43	327971	18.710 ug/l	98
44) Trichloroethene	5.831	130	160144	20.116 ug/l	97
45) 1,2-Dichloropropane	6.092	63	168622	19.664 ug/l	98
46) Dibromomethane	6.227	93	126156	19.221 ug/l	97
47) Bromodichloromethane	6.426	83	256722	18.920 ug/l	99
48) Methyl methacrylate	6.301	41	142959	17.992 ug/l	96
49) 1,4-Dioxane	6.297	88	51154	398.926 ug/l	96
51) 4-Methyl-2-Pentanone	7.150	43	1165241	101.045 ug/l	98
52) Toluene	7.307	92	405246	20.259 ug/l	98
53) t-1,3-Dichloropropene	7.577	75	237200	20.059 ug/l	98
54) cis-1,3-Dichloropropene	6.950	75	269902	20.676 ug/l	95
55) 1,1,2-Trichloroethane	7.760	97	173521	19.346 ug/l	98
56) Ethyl methacrylate	7.719	69	205595	19.302 ug/l	96
57) 1,3-Dichloropropane	7.934	76	270929	19.140 ug/l	99
58) 2-Chloroethyl Vinyl ether	6.812	63	497770	89.200 ug/l	100
59) 2-Hexanone	8.066	43	847553	92.530 ug/l	99
60) Dibromochloromethane	8.169	129	199559	19.526 ug/l	98
61) 1,2-Dibromoethane	8.275	107	185266	20.197 ug/l	98
64) Tetrachloroethene	7.895	164	136377	19.503 ug/l	98
65) Chlorobenzene	8.805	112	448775	19.299 ug/l	97
66) 1,1,1,2-Tetrachloroethane	8.899	131	161669	19.241 ug/l	99
67) Ethyl Benzene	8.937	91	683210	19.409 ug/l	99
68) m/p-Xylenes	9.063	106	568444	41.841 ug/l	98
69) o-Xylene	9.468	106	243305	20.226 ug/l	97
70) Styrene	9.487	104	454259	18.755 ug/l	99
71) Bromoform	9.654	173	133666	20.366 ug/l	99
73) Isopropylbenzene	9.857	105	676001	18.990 ug/l	99
74) N-amyl acetate	9.725	43	273330	19.249 ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.165	83	283007	18.144 ug/l	99
76) 1,2,3-Trichloropropane	10.198	75	205329	18.374 ug/l	99
77) Bromobenzene	10.140	156	182007	19.707 ug/l	96
78) n-propylbenzene	10.278	91	822195	18.966 ug/l	98
79) 2-Chlorotoluene	10.349	91	515642	19.879 ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	577612	19.521 ug/l	99
81) trans-1,4-Dichloro-2-b...	9.931	75	86829	18.654 ug/l	99
82) 4-Chlorotoluene	10.464	91	607661	20.203 ug/l	100
83) tert-Butylbenzene	10.789	119	532209	18.038 ug/l	98
84) 1,2,4-Trimethylbenzene	10.841	105	559808	19.488 ug/l	99
85) sec-Butylbenzene	11.011	105	691659	17.674 ug/l	100
86) p-Isopropyltoluene	11.169	119	589760	18.107 ug/l	100
87) 1,3-Dichlorobenzene	11.108	146	358060	19.156 ug/l	99
88) 1,4-Dichlorobenzene	11.198	146	375372	18.305 ug/l	98
89) n-Butylbenzene	11.580	91	539925	17.357 ug/l	99
90) Hexachloroethane	11.818	117	129925	16.198 ug/l	99
91) 1,2-Dichlorobenzene	11.567	146	329507	18.868 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.352	75	59548	21.458 ug/l	97
93) 1,2,4-Trichlorobenzene	13.188	180	183040	18.284 ug/l	99
94) Hexachlorobutadiene	13.371	225	79764	15.334 ug/l	98
95) Naphthalene	13.426	128	602556	18.623 ug/l	100
96) 1,2,3-Trichlorobenzene	13.667	180	188633	18.424 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

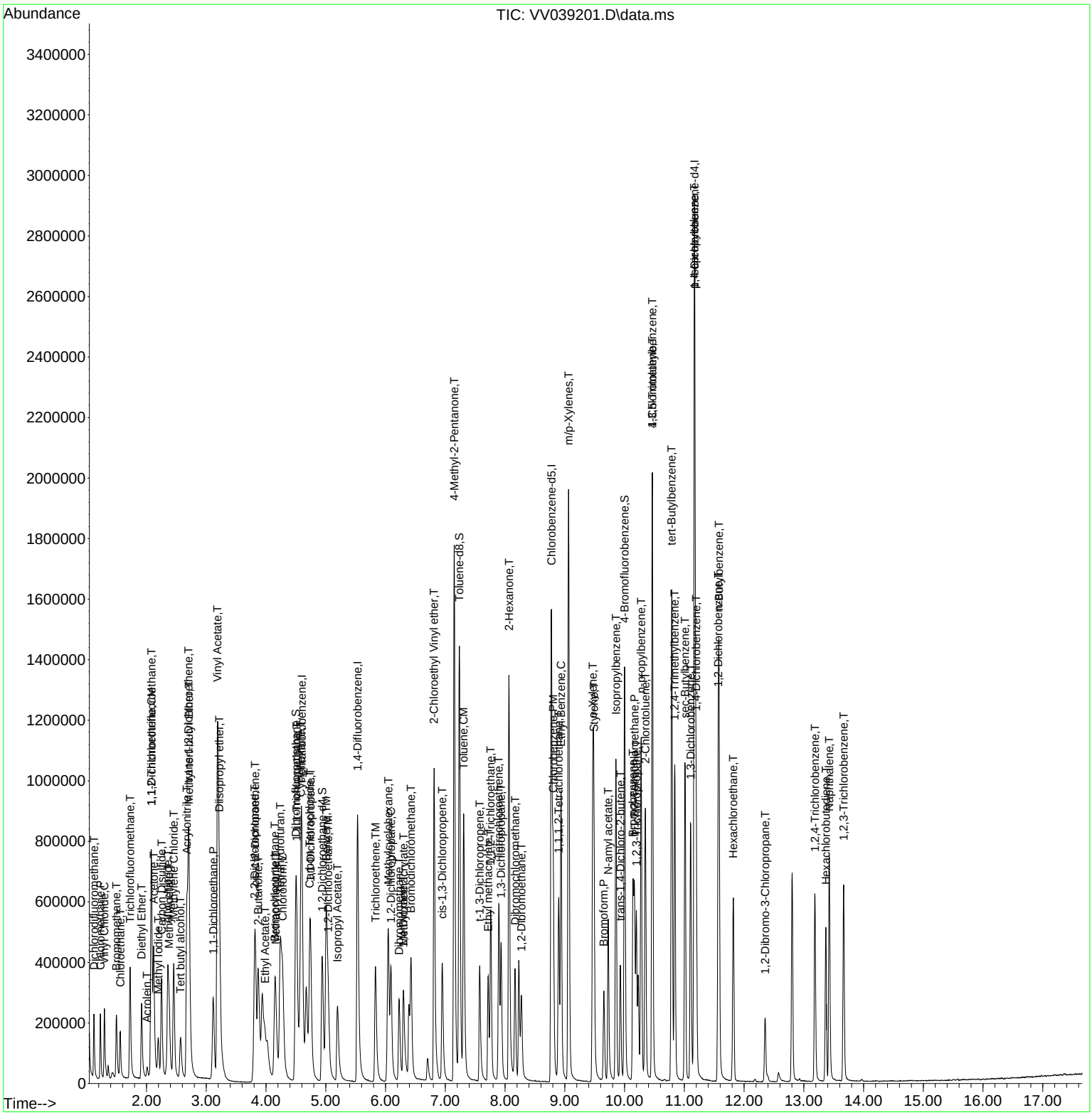
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

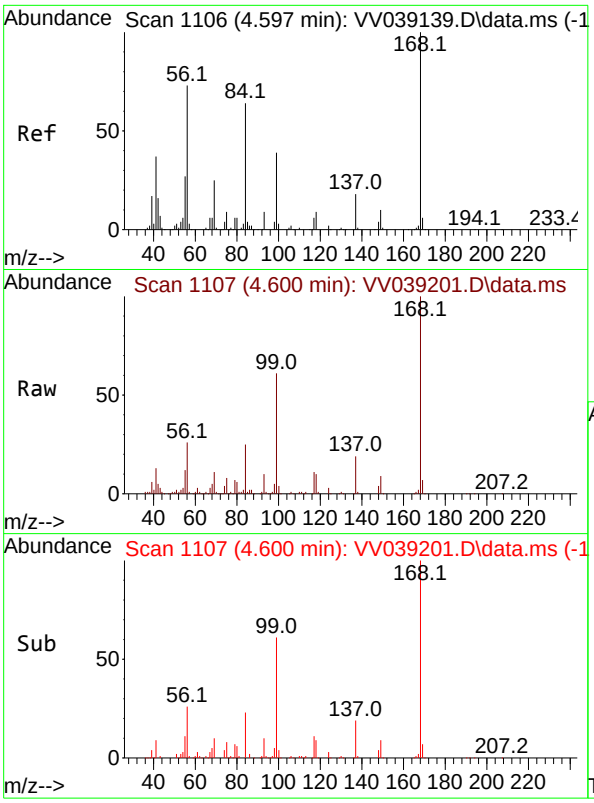
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



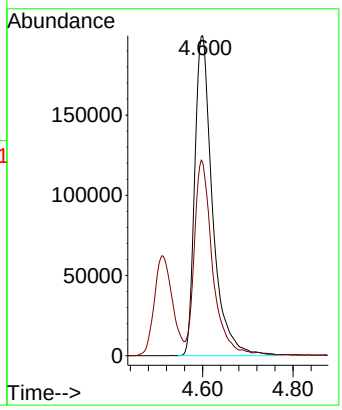


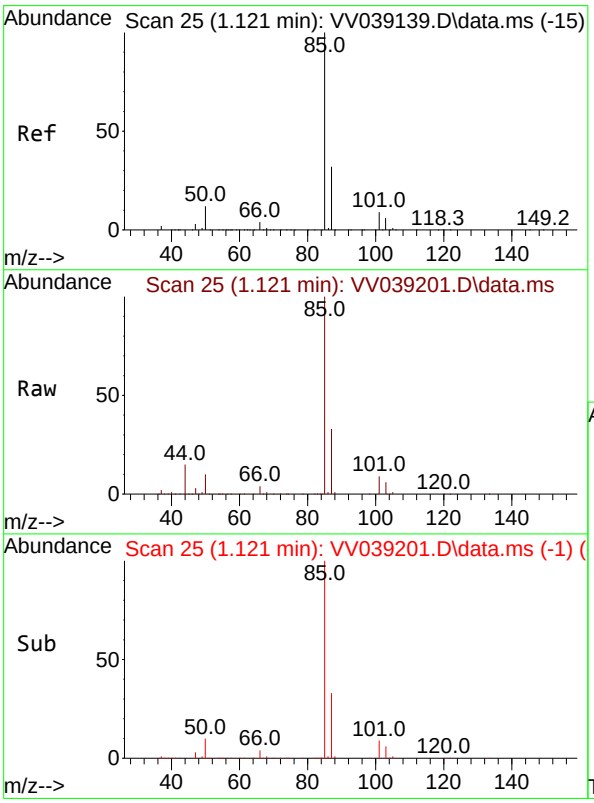
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:168 Resp: 545170

Ion	Ratio	Lower	Upper
168	100		
99	60.1	49.6	74.4

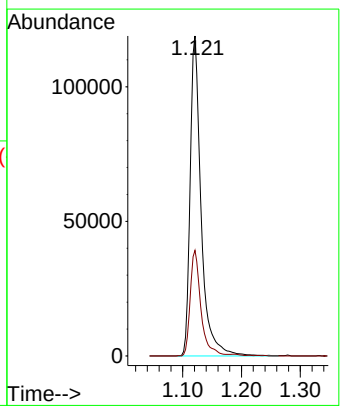


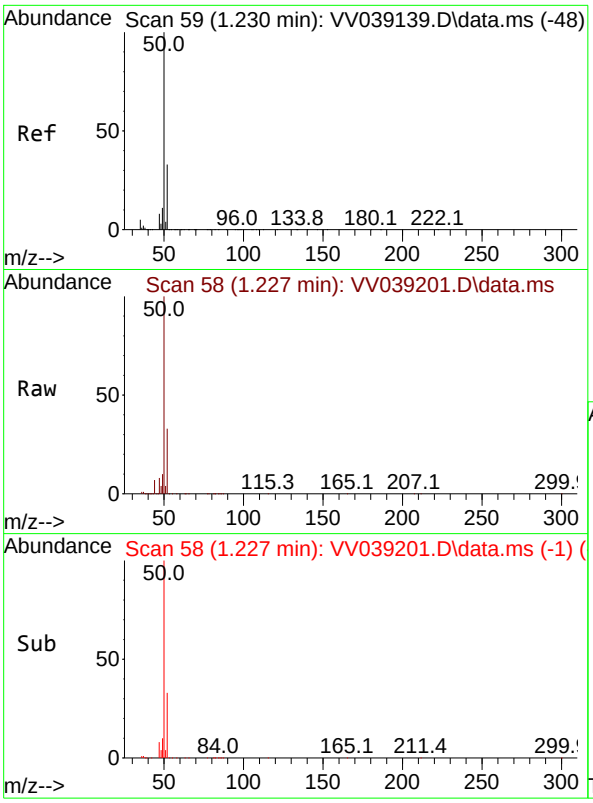


#2
Dichlorodifluoromethane
Concen: 17.849 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 85 Resp: 154039

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.0	47.9



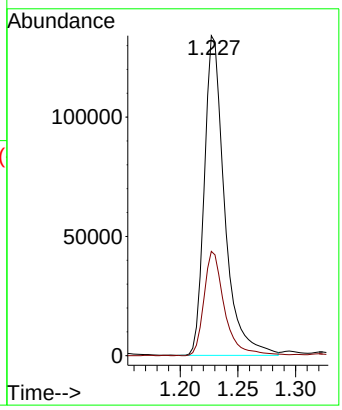


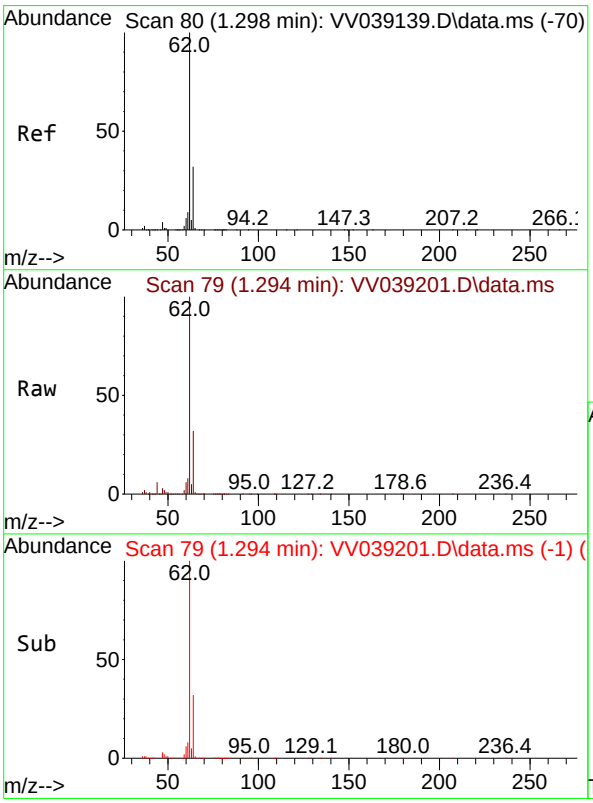
#3
Chloromethane
Concen: 17.633 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 50 Resp: 163364

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

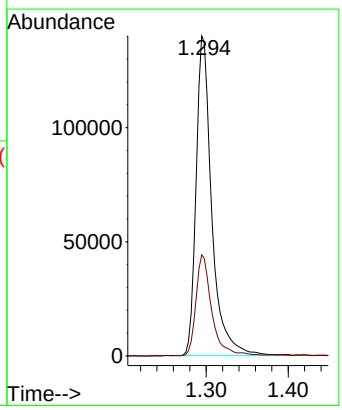


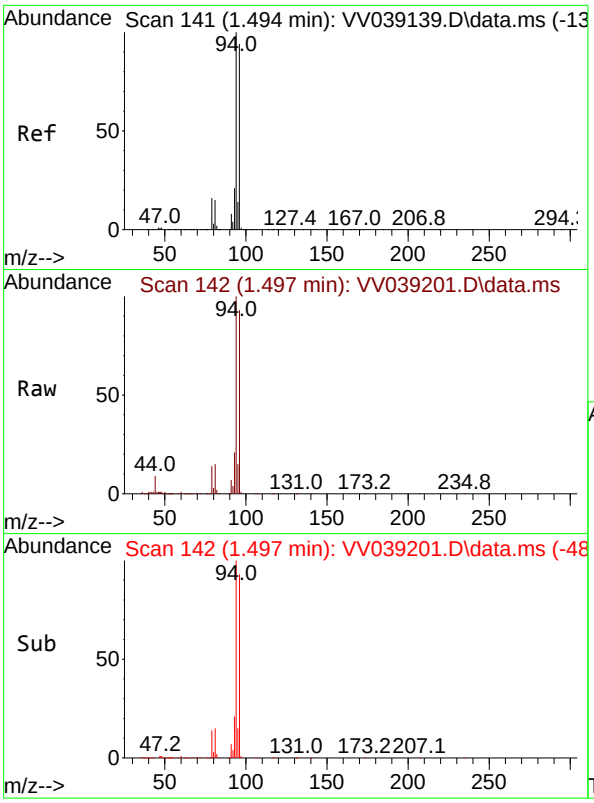


#4
Vinyl Chloride
Concen: 18.714 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 62 Resp: 185615

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.6	38.4



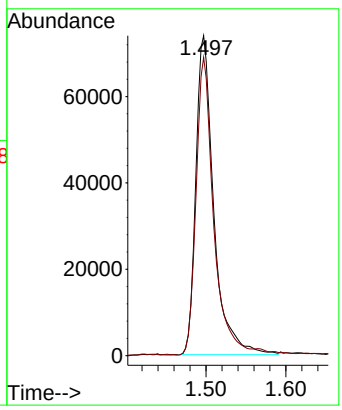


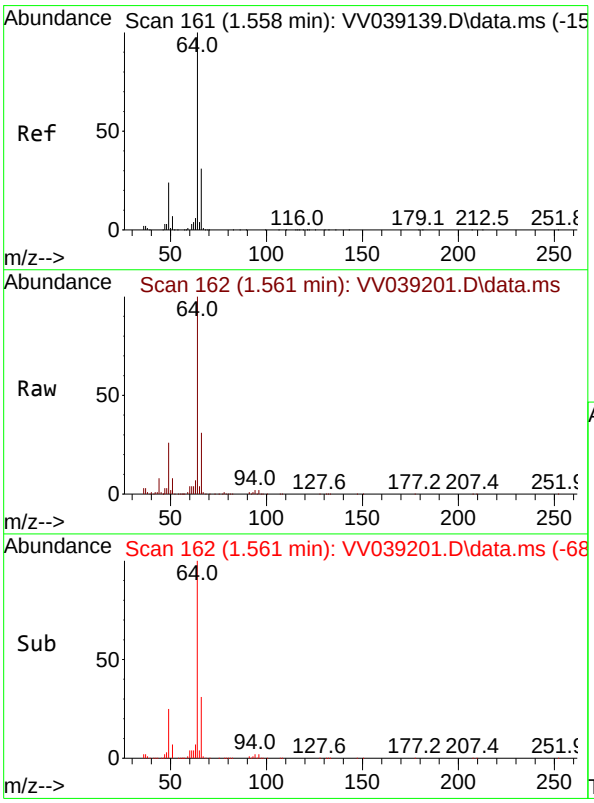
#5
Bromomethane
Concen: 18.487 ug/l
RT: 1.497 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 94 Resp: 115593

Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.9	112.3

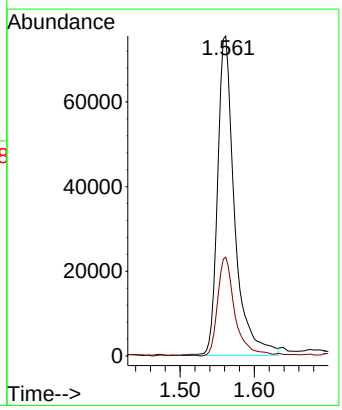


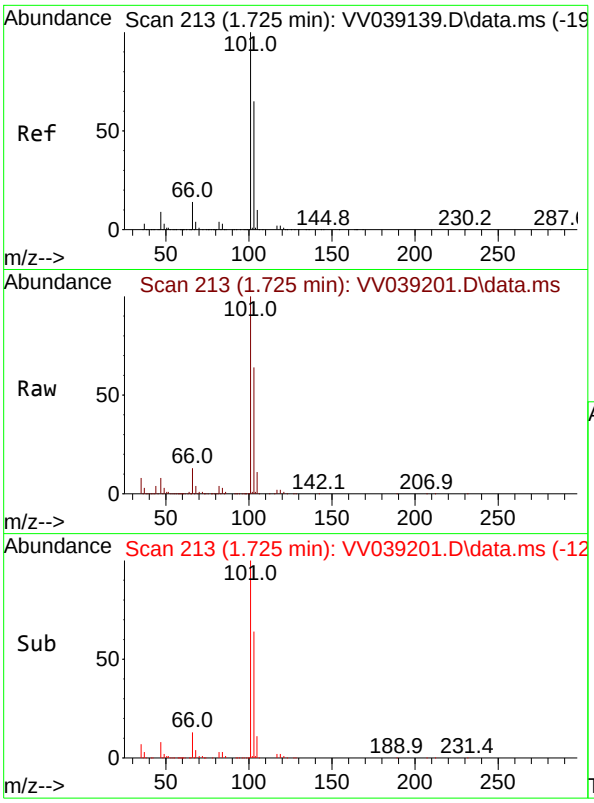


#6
Chloroethane
Concen: 19.255 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 64 Resp: 119943

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	36.8



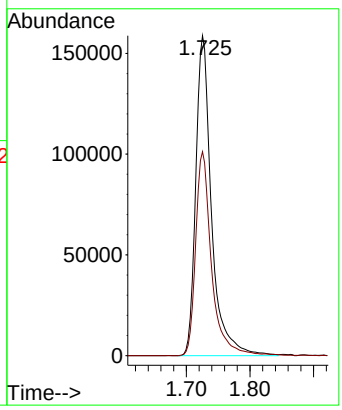


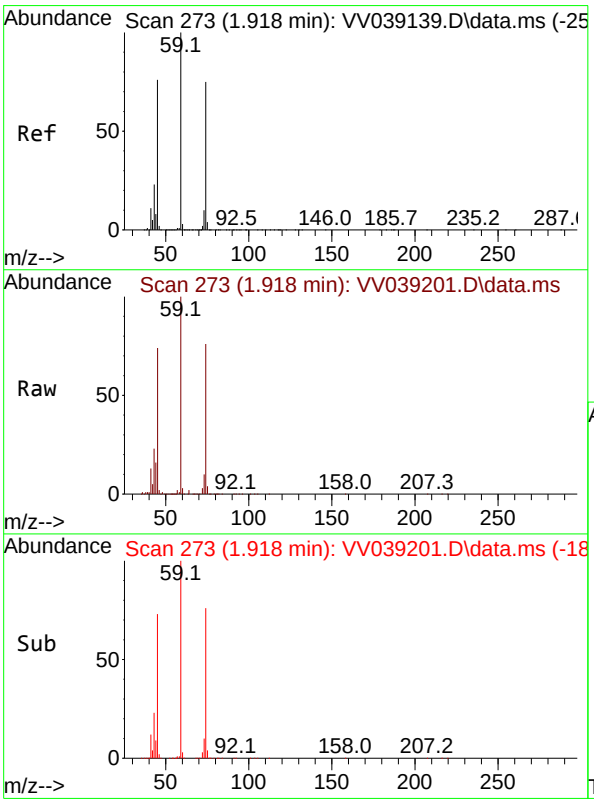
#7
Trichlorofluoromethane
Concen: 19.023 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:101 Resp: 273170

Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.0	78.0

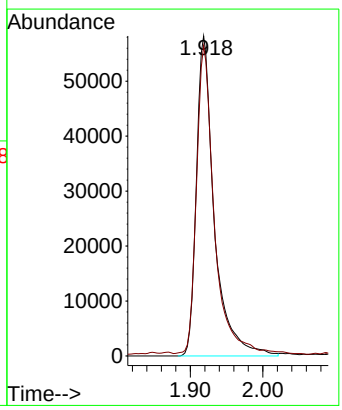


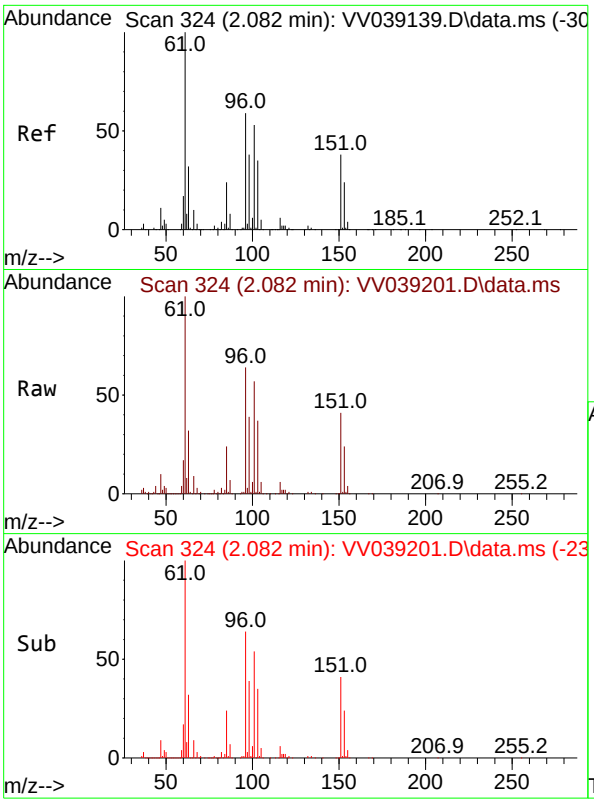


#8
Diethyl Ether
Concen: 18.712 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 74 Resp: 99752

Ion	Ratio	Lower	Upper
74	100		
45	93.9	49.6	148.8



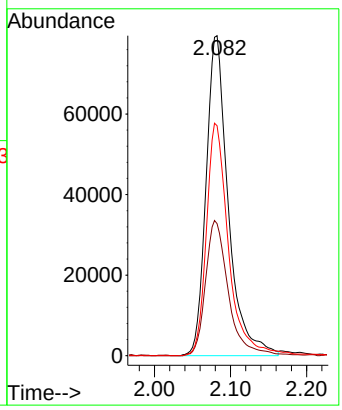


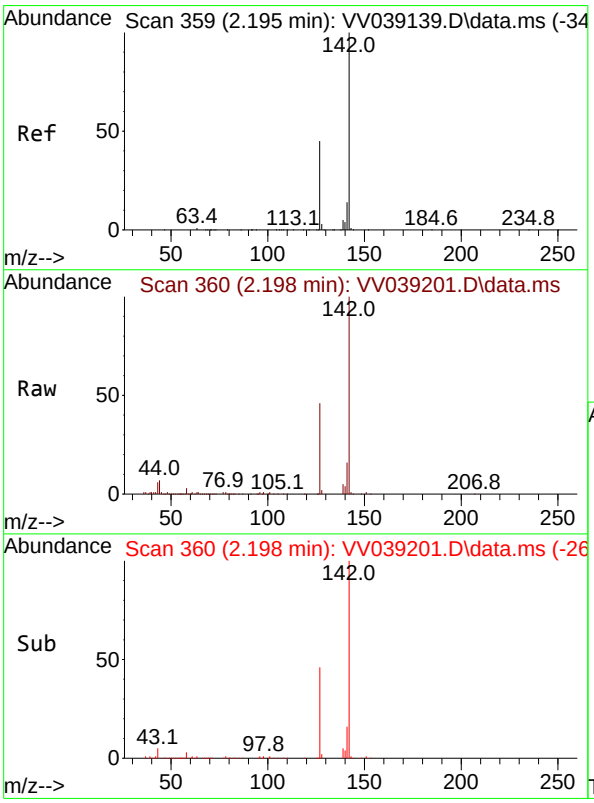
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.814 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:101 Resp: 160752

Ion	Ratio	Lower	Upper
101	100		
85	43.7	36.2	54.2
151	72.7	56.3	84.5

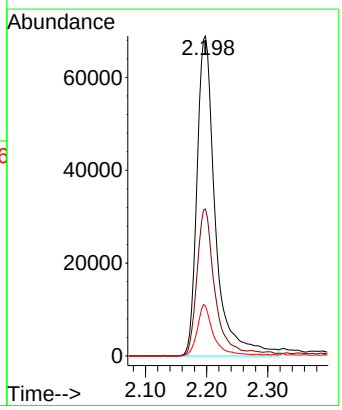


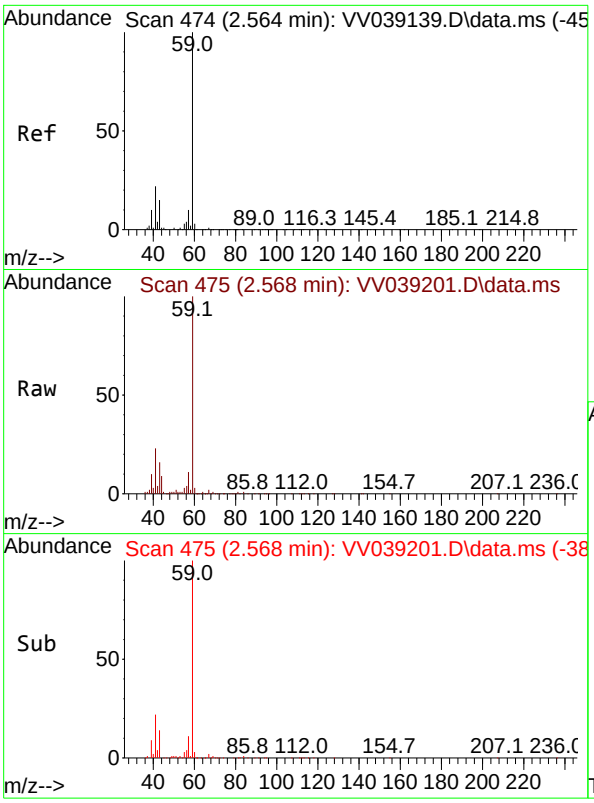


#10
Methyl Iodide
Concen: 17.735 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:142 Resp: 144299

Ion	Ratio	Lower	Upper
142	100		
127	44.2	36.3	54.5
141	14.2	11.2	16.8



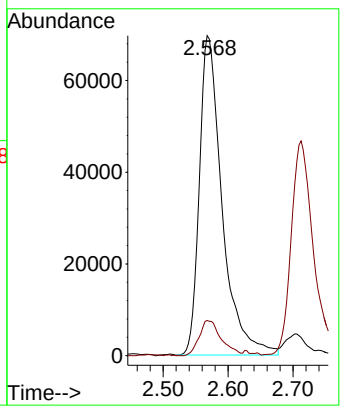


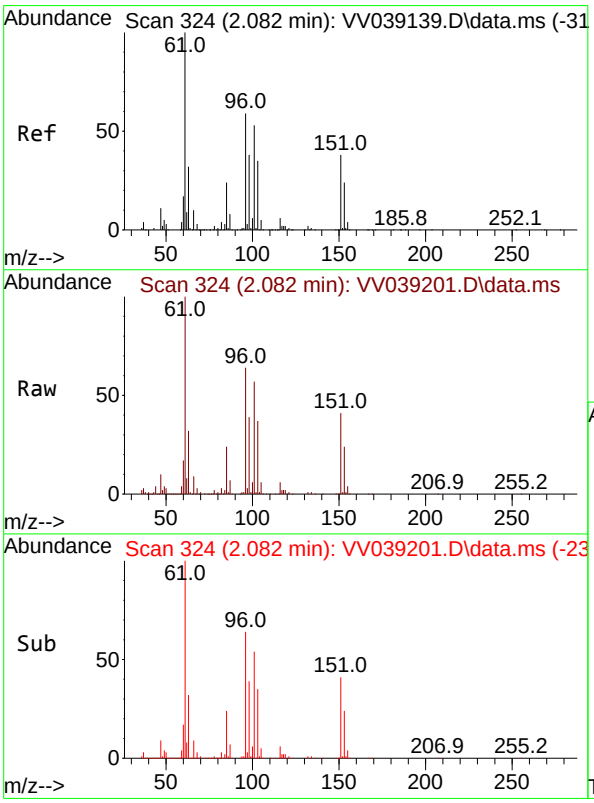
#11
Tert butyl alcohol
Concen: 101.934 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 59 Resp: 169988

Ion	Ratio	Lower	Upper
59	100		
57	10.7	7.8	11.8

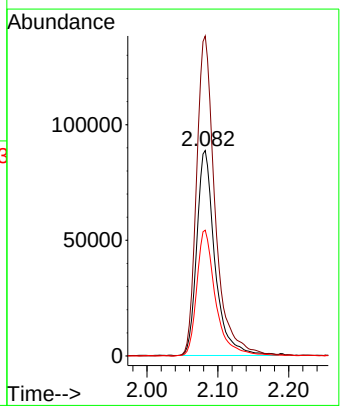


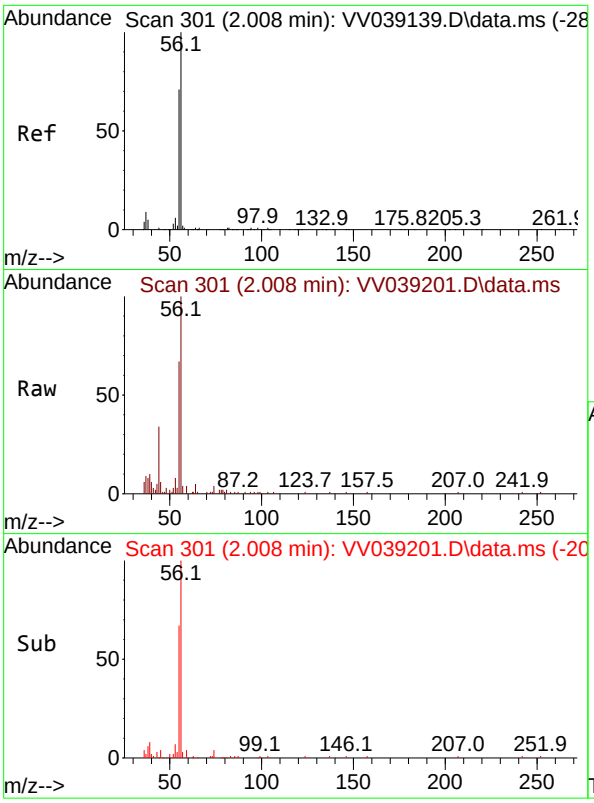


#12
1,1-Dichloroethene
Concen: 19.249 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 96 Resp: 158225

Ion	Ratio	Lower	Upper
96	100		
61	155.8	136.0	204.0
98	61.1	51.0	76.6



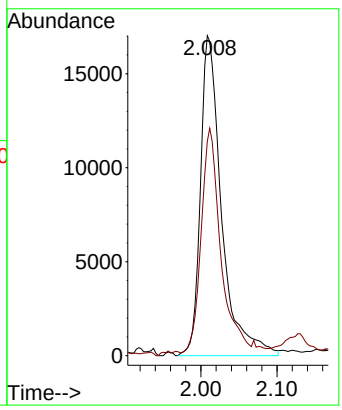


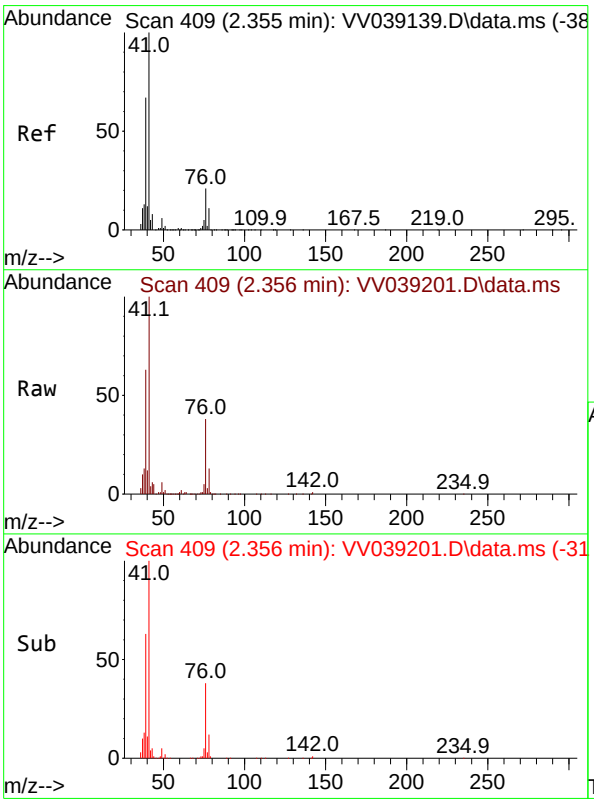
#13
Acrolein
Concen: 113.596 ug/l
RT: 2.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 56 Resp: 32871

Ion	Ratio	Lower	Upper
56	100		
55	64.6	56.2	84.4

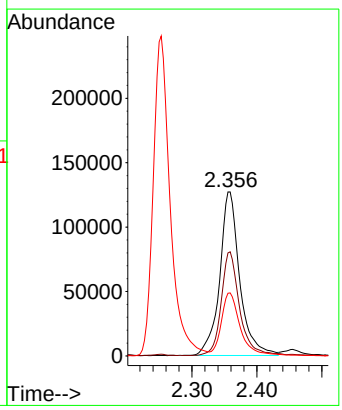


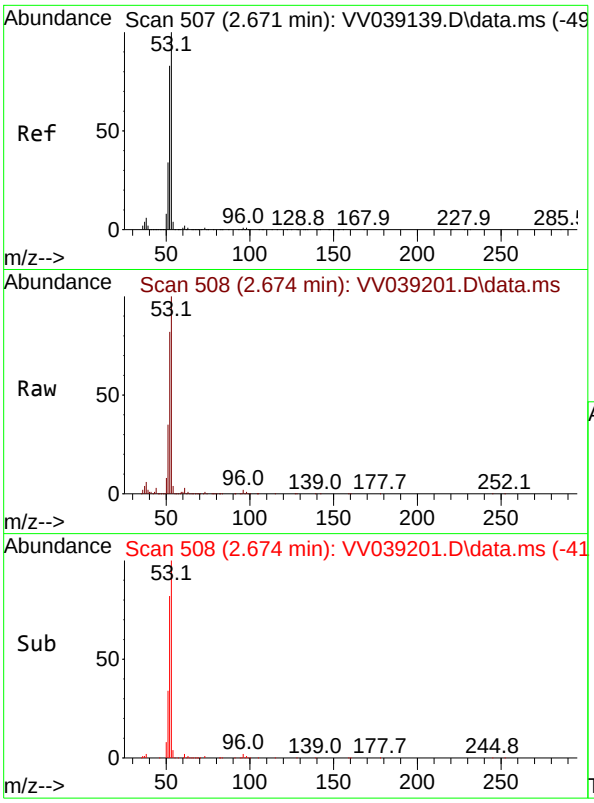


#14
Allyl chloride
Concen: 18.545 ug/l
RT: 2.356 min Scan# 409
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 41 Resp: 272293

Ion	Ratio	Lower	Upper
41	100		
39	58.1	51.0	76.6
76	36.7	28.2	42.4



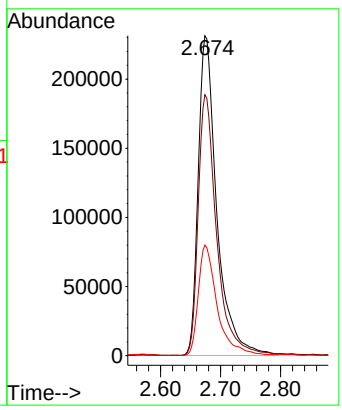


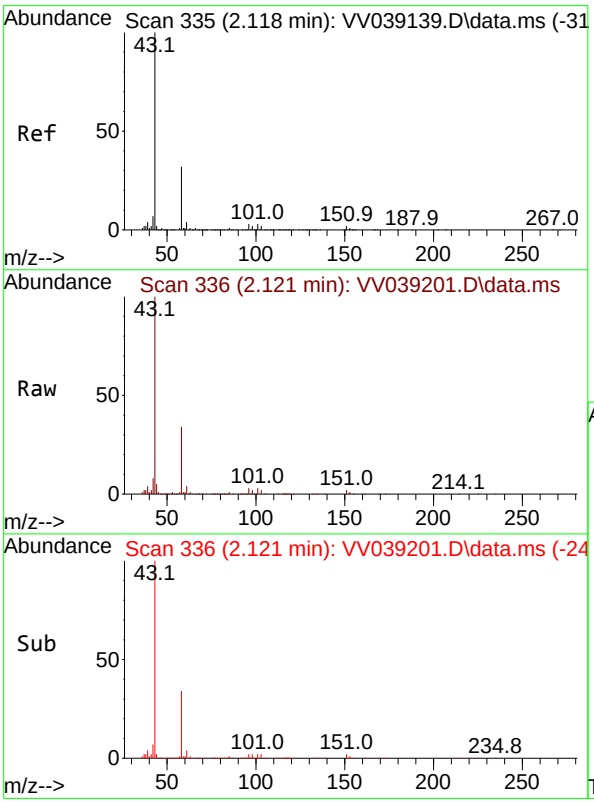
#15
Acrylonitrile
Concen: 93.717 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 53 Resp: 500998

Ion	Ratio	Lower	Upper
53	100		
52	81.0	66.1	99.1
51	35.1	28.5	42.7

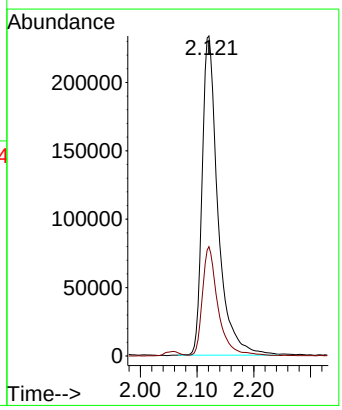


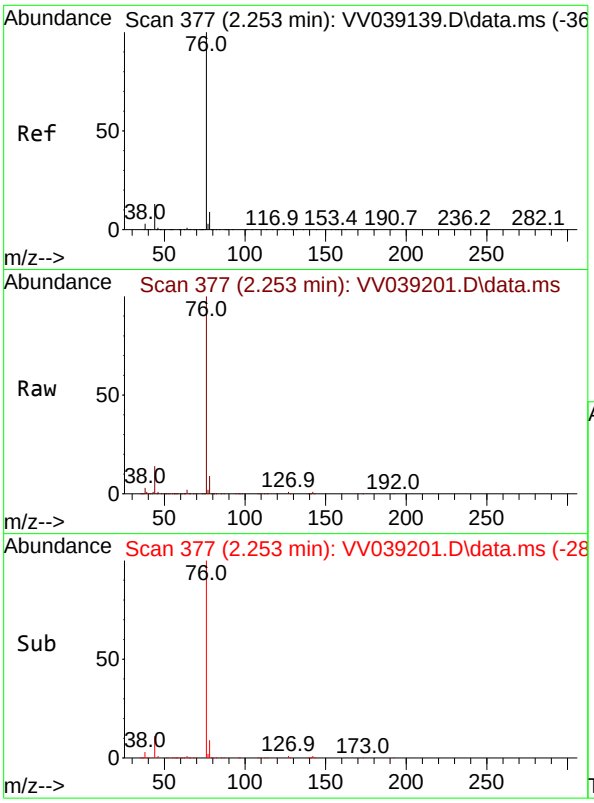


#16
Acetone
Concen: 86.377 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 43 Resp: 453436

Ion	Ratio	Lower	Upper
43	100		
58	34.0	25.8	38.6



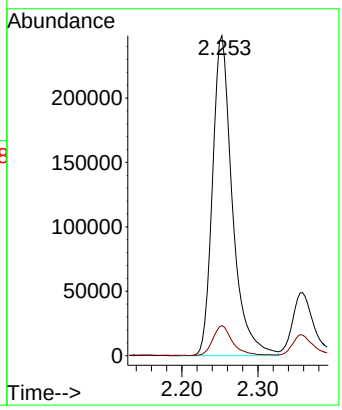


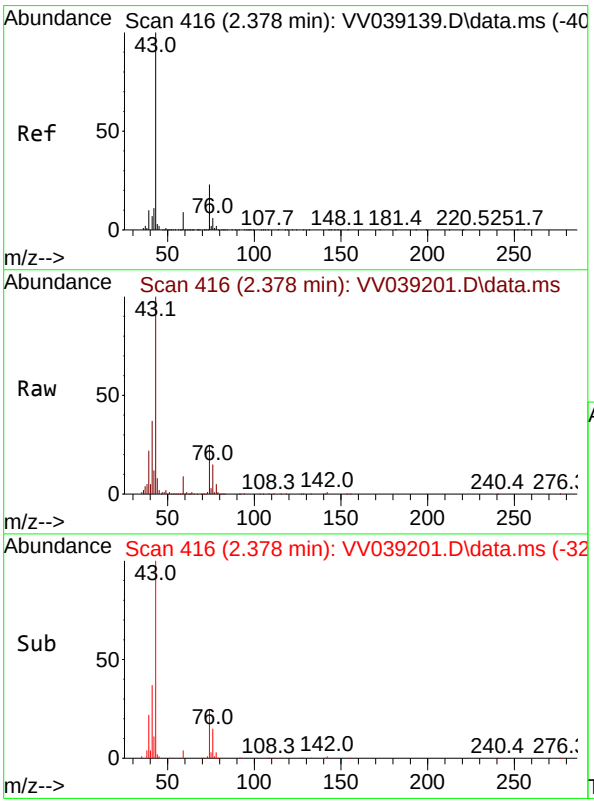
#17
Carbon Disulfide
Concen: 17.949 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 76 Resp: 451210

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0

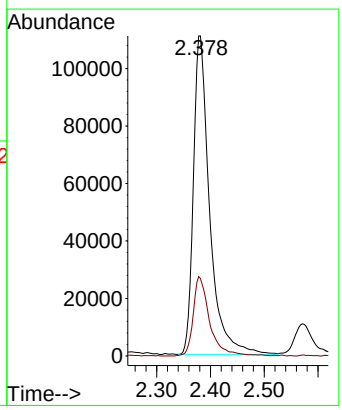


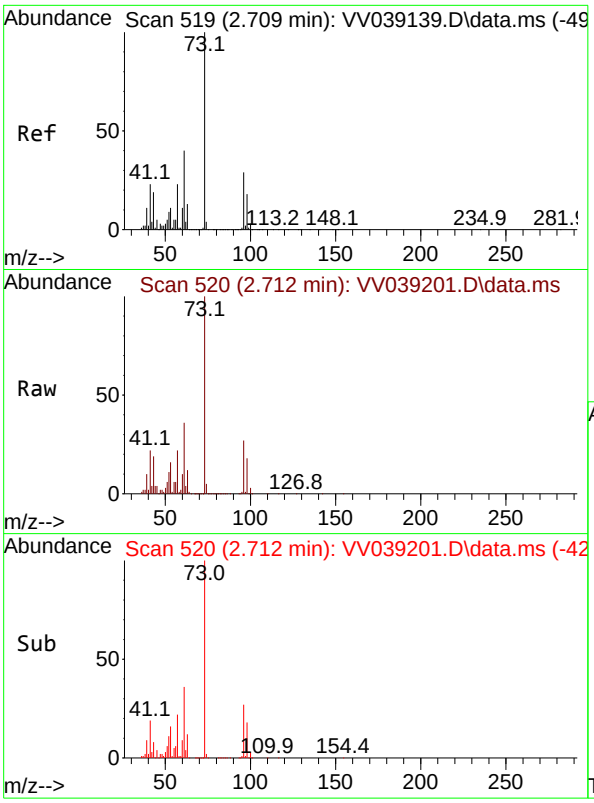


#18
Methyl Acetate
Concen: 19.863 ug/l
RT: 2.378 min Scan# 416
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 43 Resp: 232213

Ion	Ratio	Lower	Upper
43	100		
74	25.2	18.6	27.8



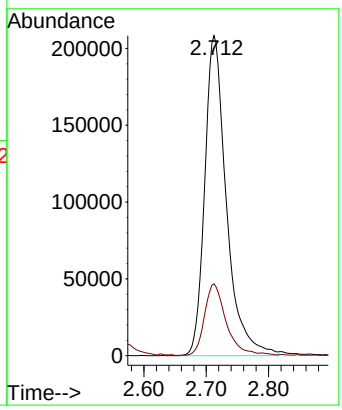


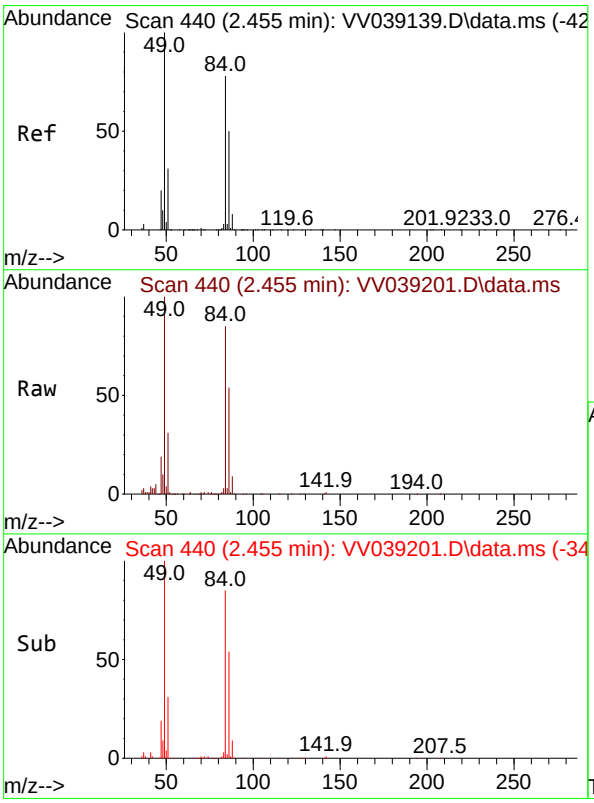
#19
Methyl tert-butyl Ether
Concen: 19.240 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 73 Resp: 503956

Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.2	27.4

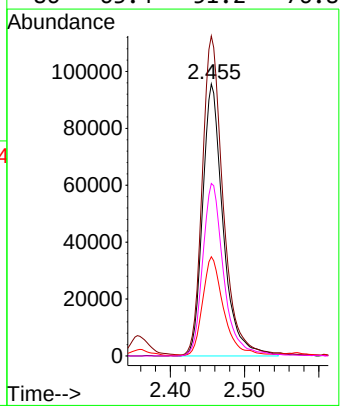


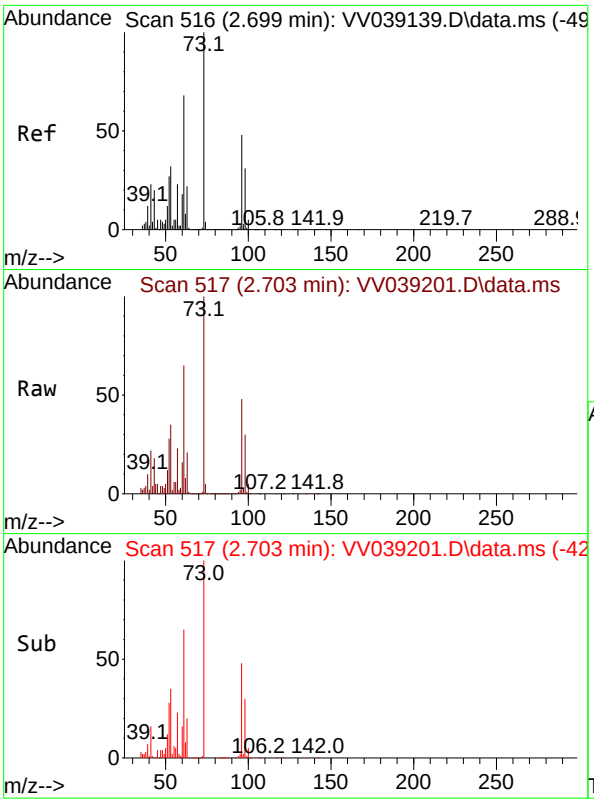


#20
Methylene Chloride
Concen: 19.906 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 84 Resp: 182887

Ion	Ratio	Lower	Upper
84	100		
49	117.2	102.8	154.2
51	36.2	31.9	47.9
86	63.4	51.2	76.8



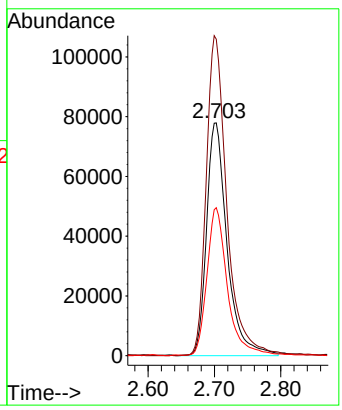


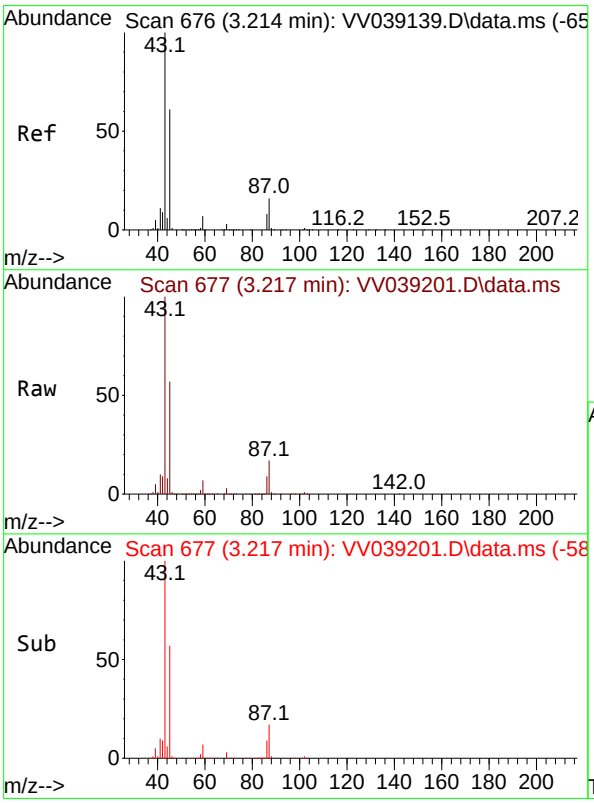
#21
trans-1,2-Dichloroethene
Concen: 19.174 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 96 Resp: 167785

Ion	Ratio	Lower	Upper
96	100		
61	136.0	112.8	169.2
98	63.3	51.1	76.7

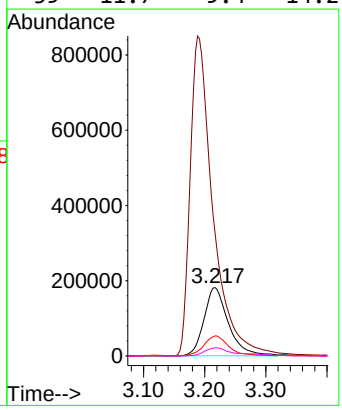


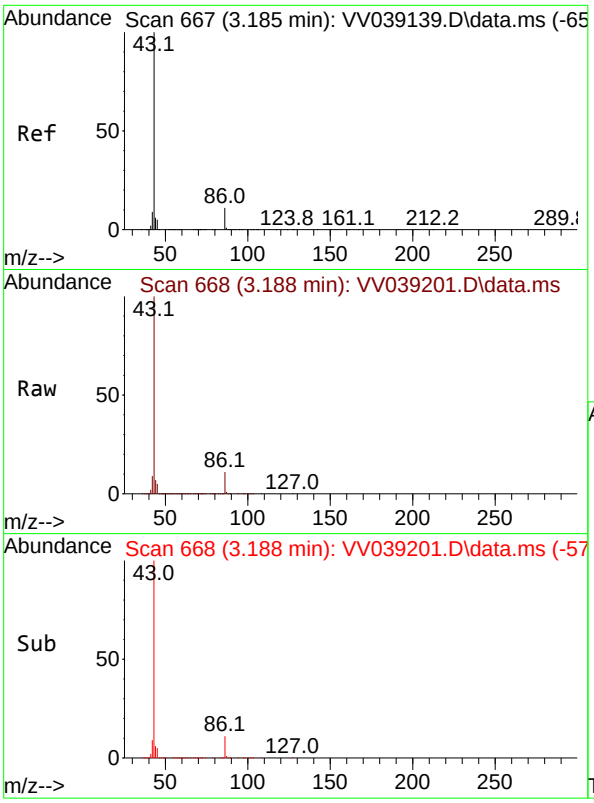


#22
Diisopropyl ether
Concen: 17.947 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 45 Resp: 504159

Ion	Ratio	Lower	Upper
45	100		
43	174.8	130.9	196.3
87	29.3	21.1	31.7
59	11.7	9.4	14.2



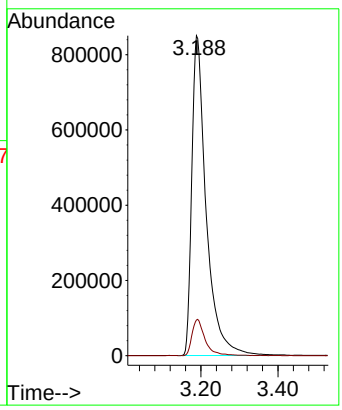


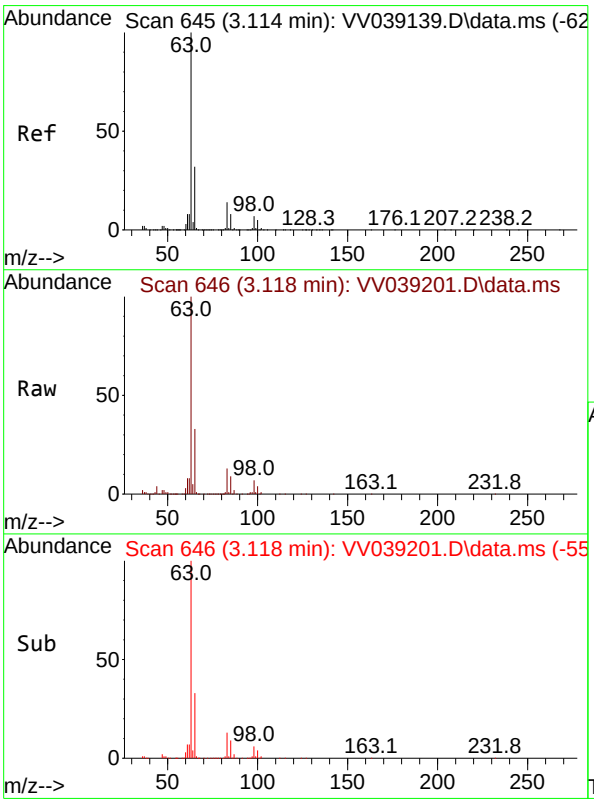
#23
Vinyl Acetate
Concen: 90.069 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 43 Resp: 2213428

Ion	Ratio	Lower	Upper
43	100		
86	11.1	8.4	12.6

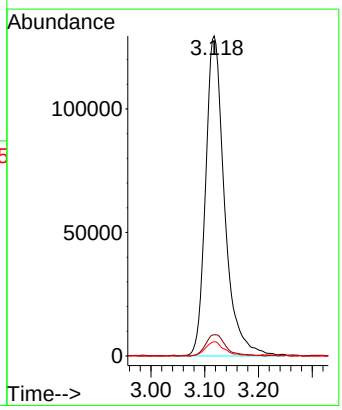


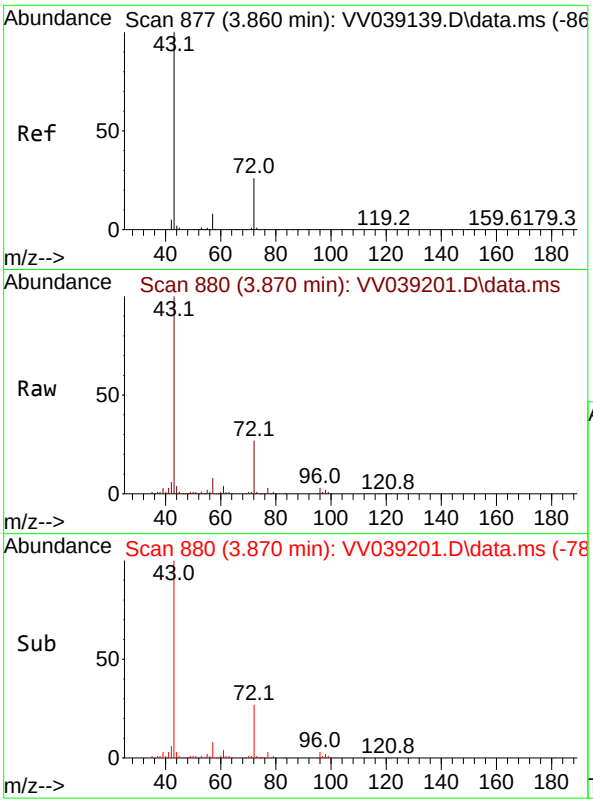


#24
1,1-Dichloroethane
Concen: 18.469 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 63 Resp: 317281

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.4	10.2
100	4.4	2.2	6.6



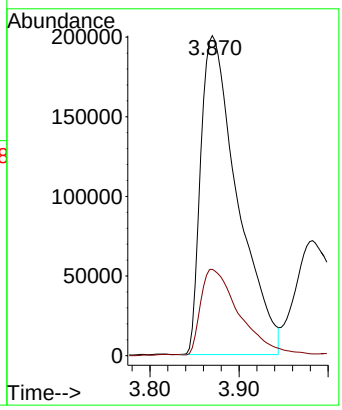


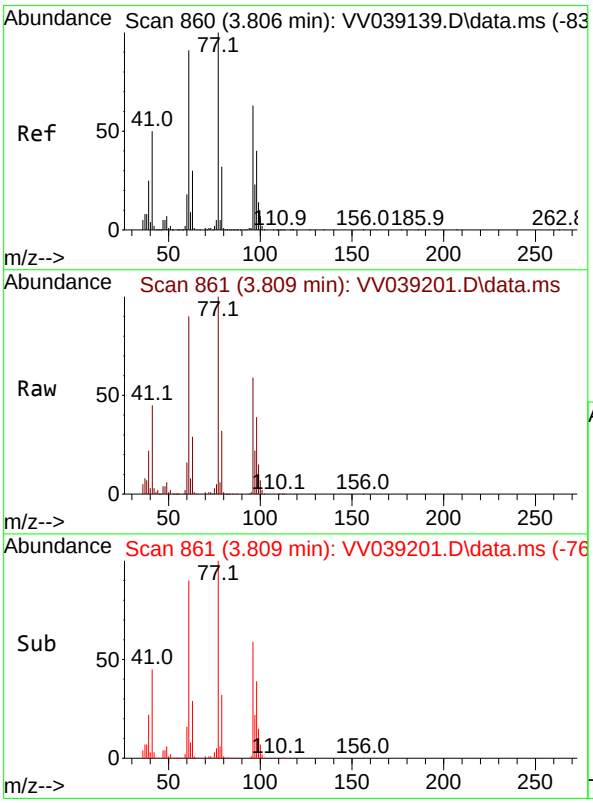
#25
2-Butanone
Concen: 90.944 ug/l
RT: 3.870 min Scan# 8
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 43 Resp: 574606

Ion	Ratio	Lower	Upper
43	100		
72	26.7	21.0	31.6

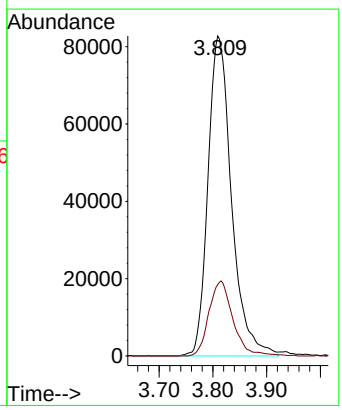


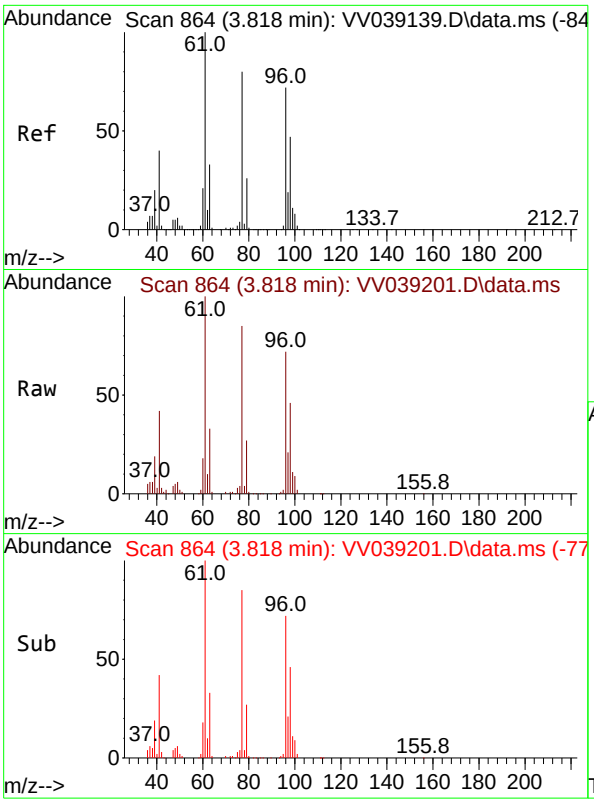


#26
2,2-Dichloropropane
Concen: 16.540 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 77 Resp: 251937

Ion	Ratio	Lower	Upper
77	100		
97	23.9	11.6	34.7



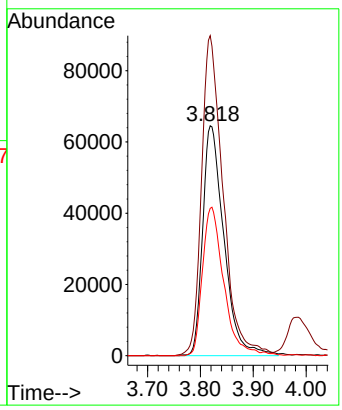


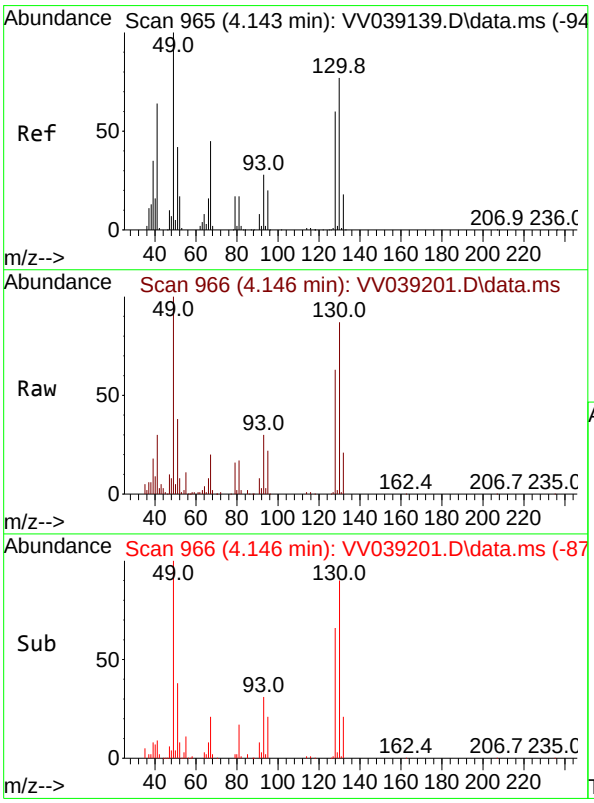
#27
cis-1,2-Dichloroethene
Concen: 18.710 ug/l
RT: 3.818 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 96 Resp: 180565

Ion	Ratio	Lower	Upper
96	100		
61	140.9	0.0	286.4
98	64.0	0.0	126.6

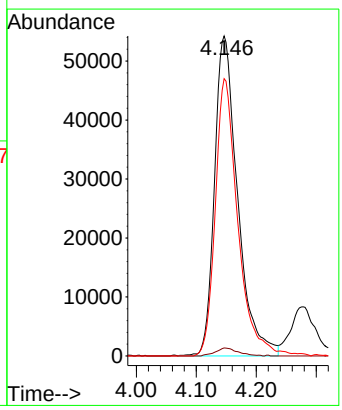


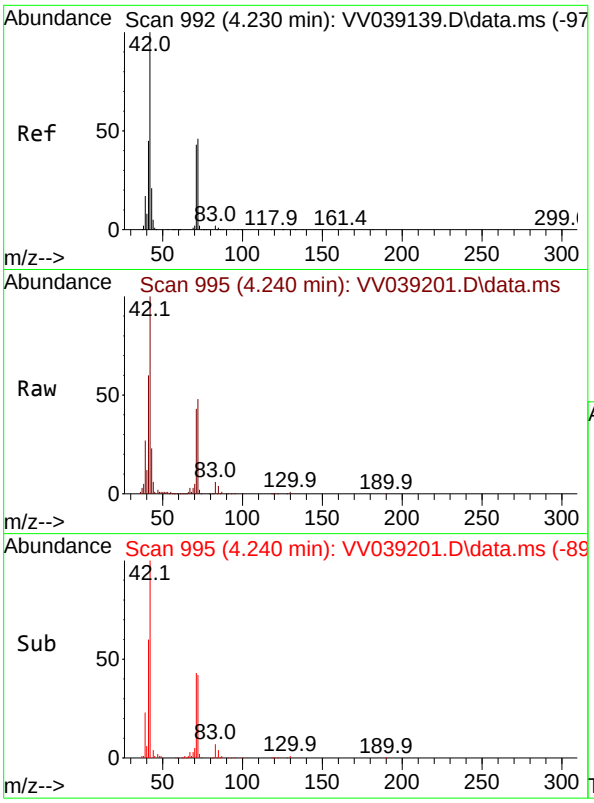


#28
Bromochloromethane
Concen: 19.144 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 49 Resp: 145186

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	84.7	60.2	90.2



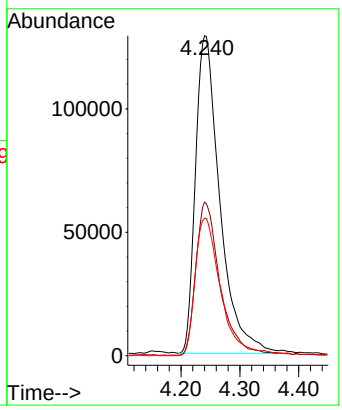


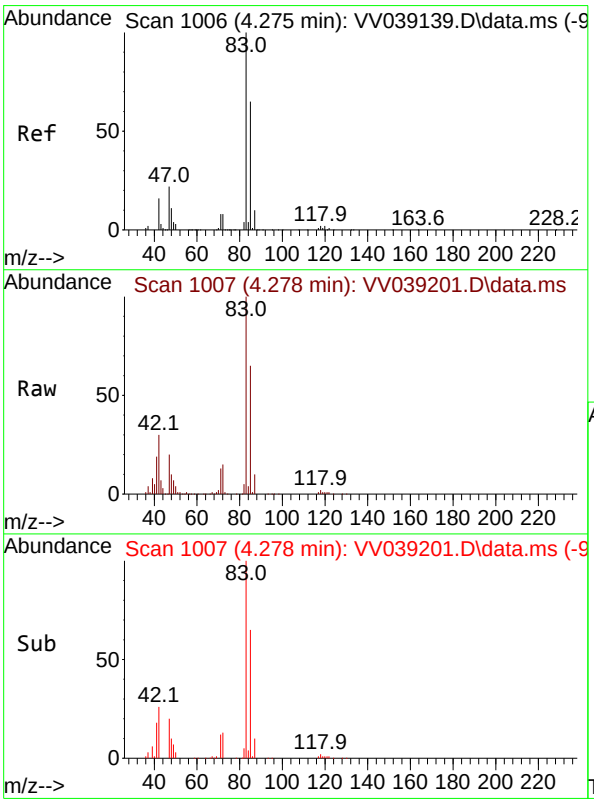
#29
Tetrahydrofuran
Concen: 93.372 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 42 Resp: 369264

Ion	Ratio	Lower	Upper
42	100		
72	48.1	36.3	54.5
71	44.6	34.3	51.5

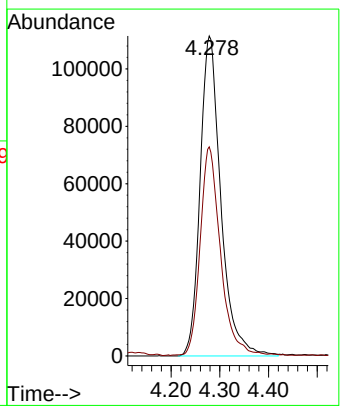


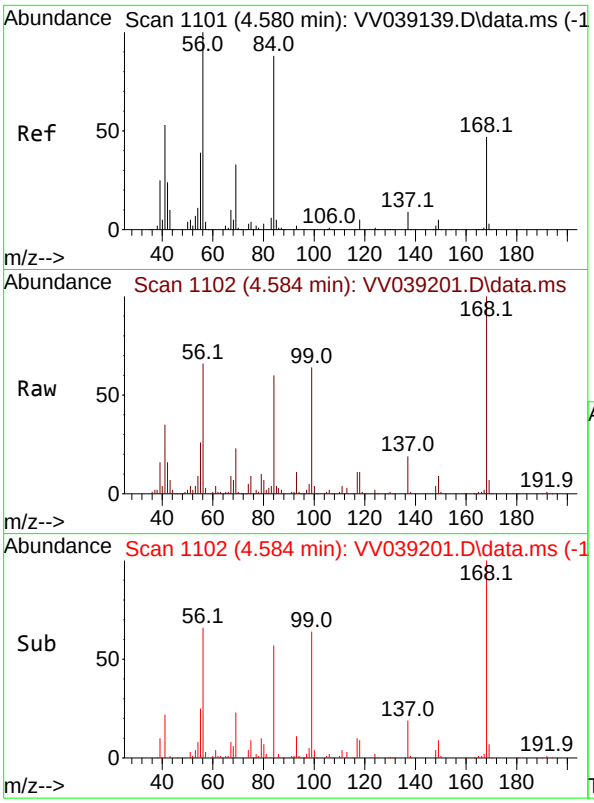


#30
Chloroform
Concen: 18.380 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 83 Resp: 329719

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.1	78.1



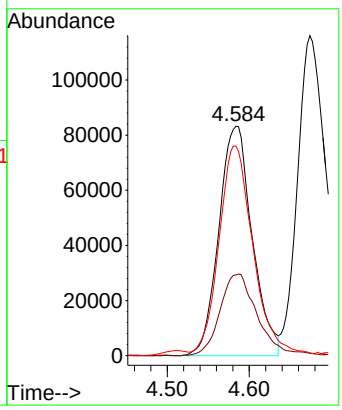


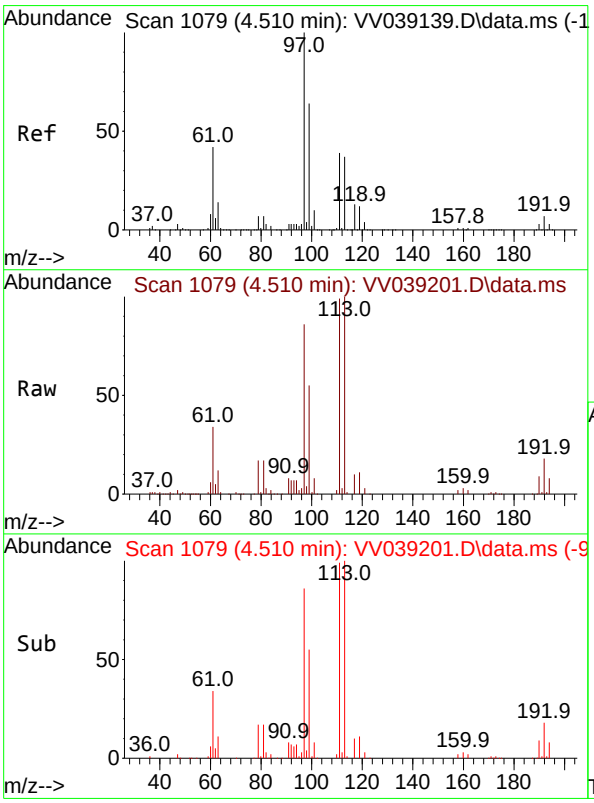
#31
Cyclohexane
Concen: 16.730 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 56 Resp: 235441

Ion	Ratio	Lower	Upper
56	100		
69	35.2	26.2	39.2
84	89.0	70.3	105.5

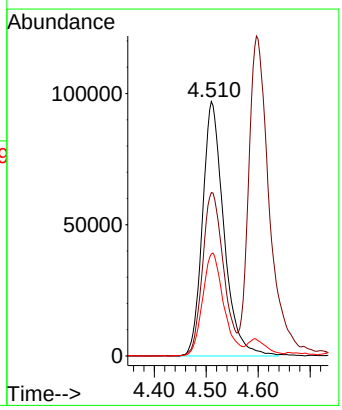


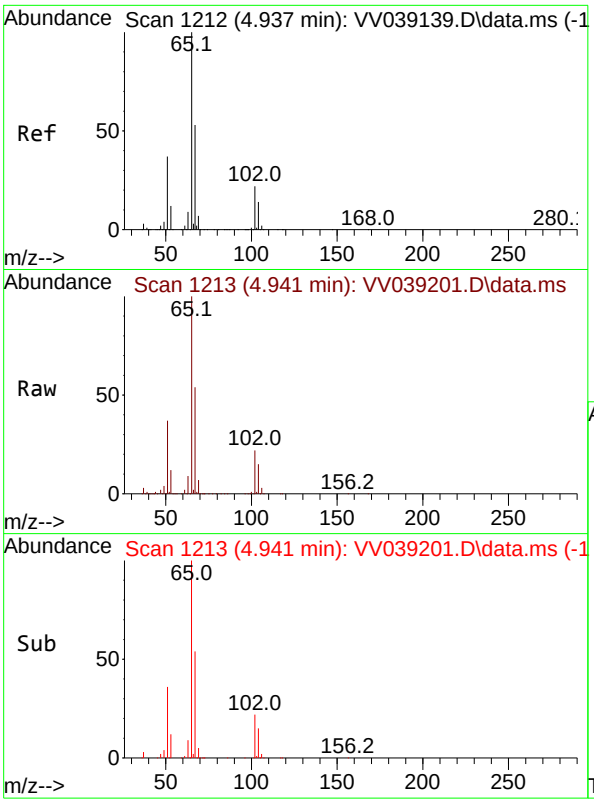


#32
1,1,1-Trichloroethane
Concen: 17.839 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 97 Resp: 277050

Ion	Ratio	Lower	Upper
97	100		
99	62.7	49.6	74.4
61	39.8	34.5	51.7



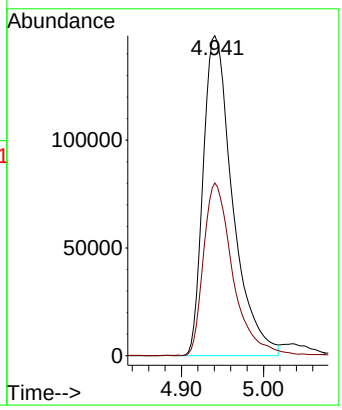


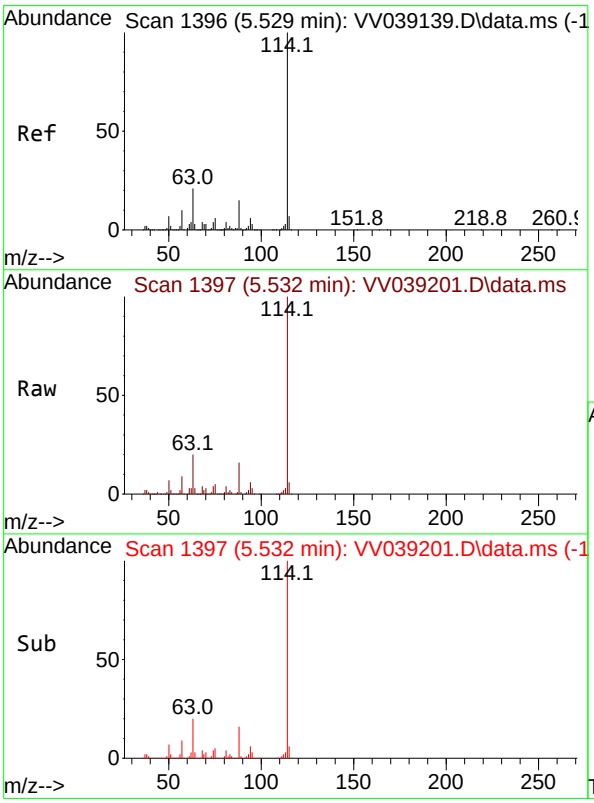
#33
1,2-Dichloroethane-d4
Concen: 46.942 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 65 Resp: 370387

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	107.0

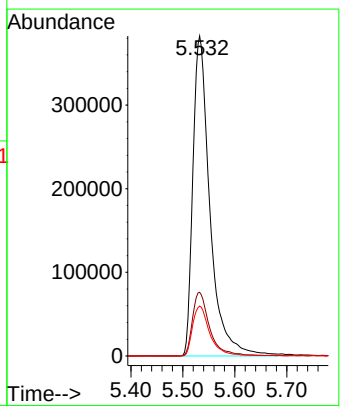


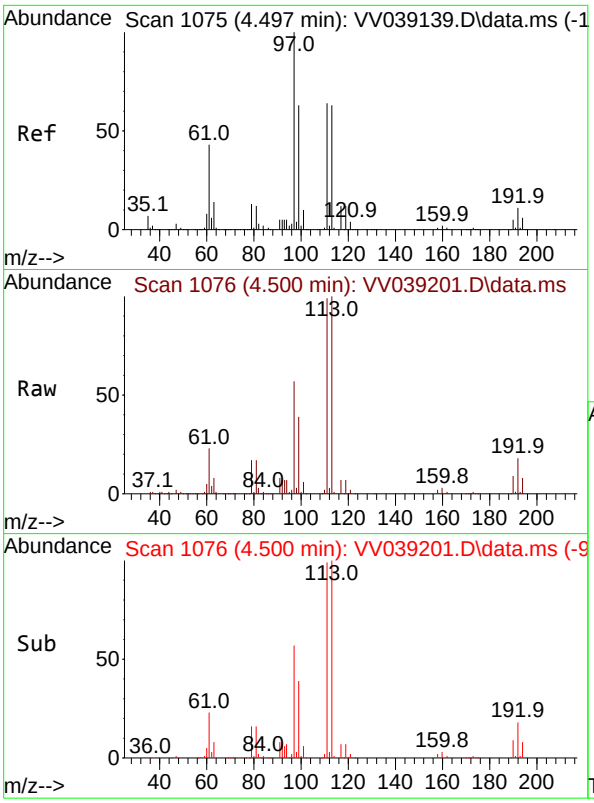


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:114 Resp: 871681

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.6
88	15.6	0.0	30.8



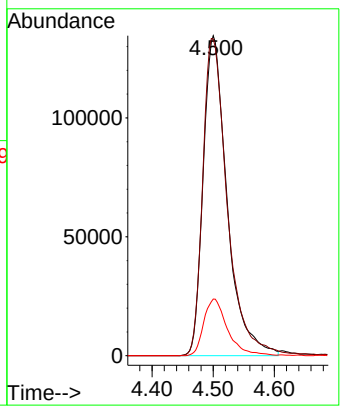


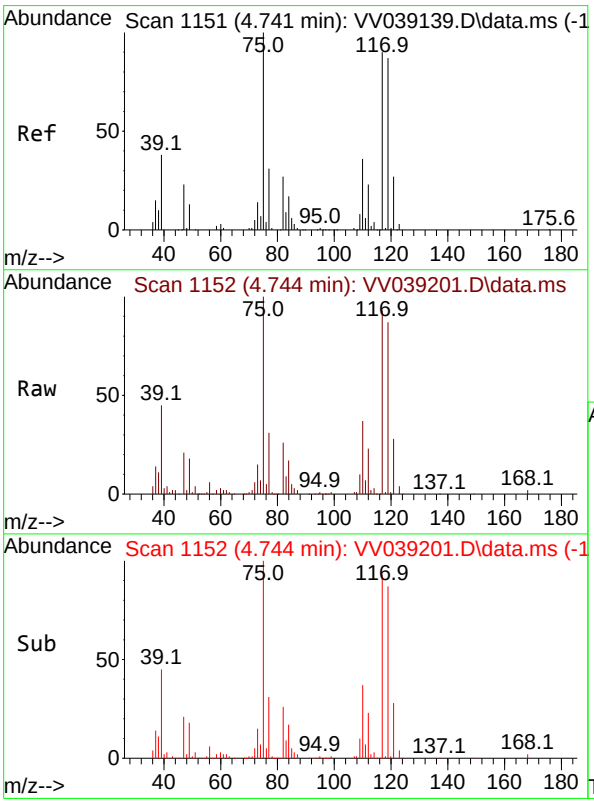
#35
Dibromofluoromethane
Concen: 52.251 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:113 Resp: 366158

Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.4	123.6
192	17.6	13.8	20.8

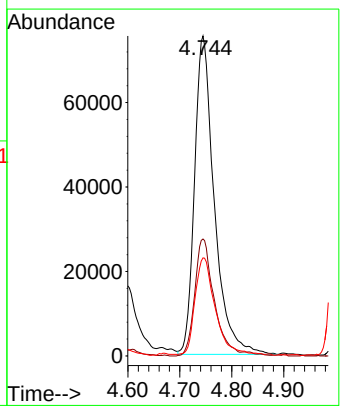


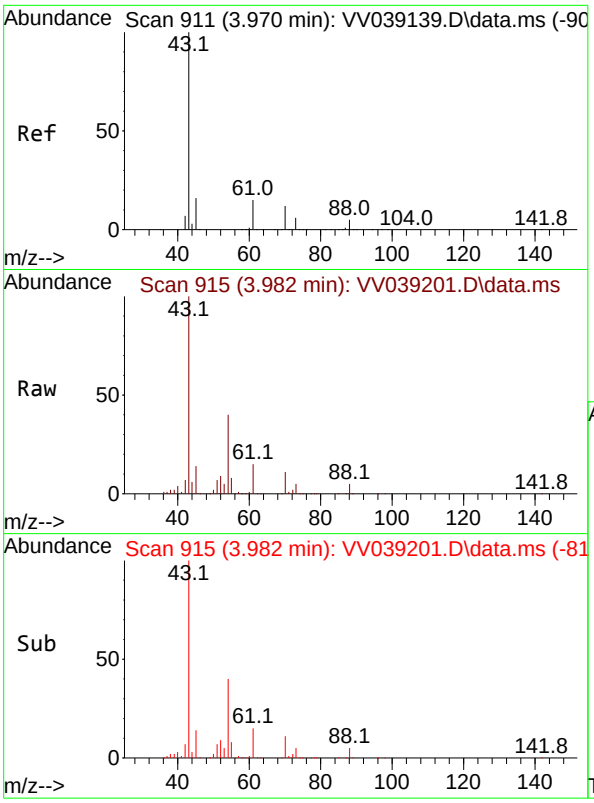


#36
1,1-Dichloropropene
Concen: 18.828 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 199480

Ion	Ratio	Lower	Upper
75	100		
110	35.7	18.1	54.1
77	30.4	24.8	37.2



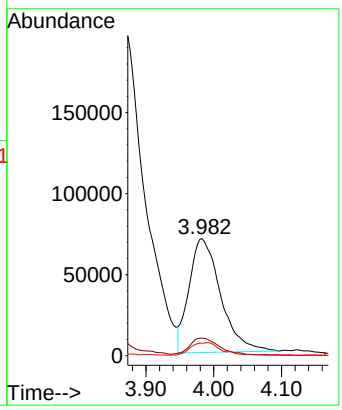


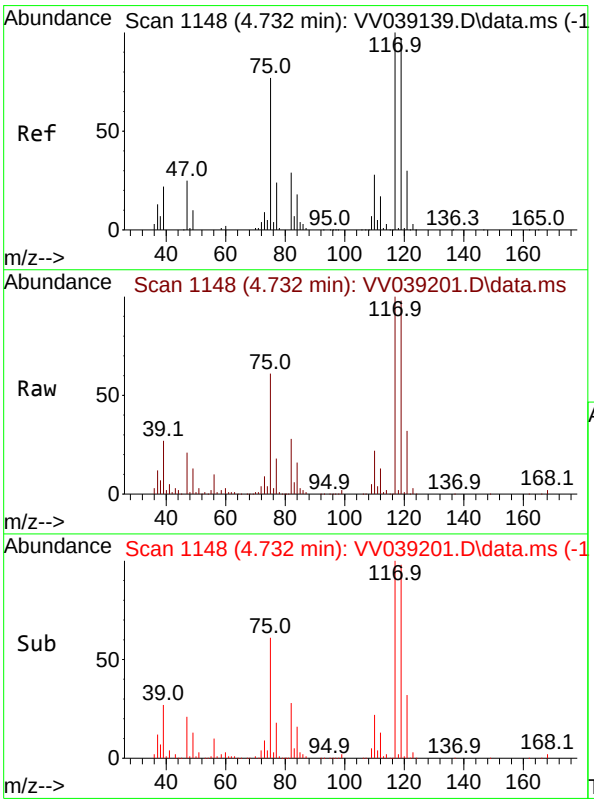
#37
Ethyl Acetate
Concen: 17.728 ug/l
RT: 3.982 min Scan# 91
Delta R.T. 0.012 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 43 Resp: 227906

Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.3	15.5
70	10.8	8.0	12.0

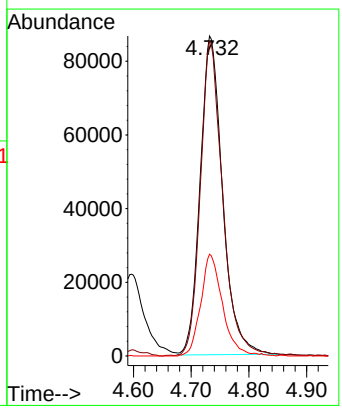


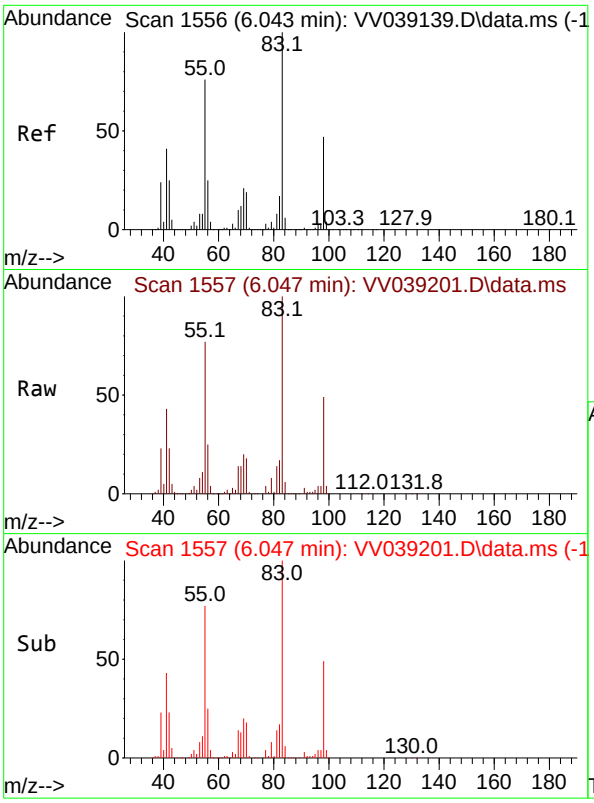


#38
Carbon Tetrachloride
Concen: 18.006 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:117 Resp: 233151

Ion	Ratio	Lower	Upper
117	100		
119	98.5	77.2	115.8
121	32.0	24.2	36.2



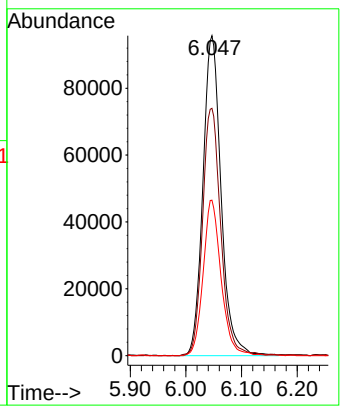


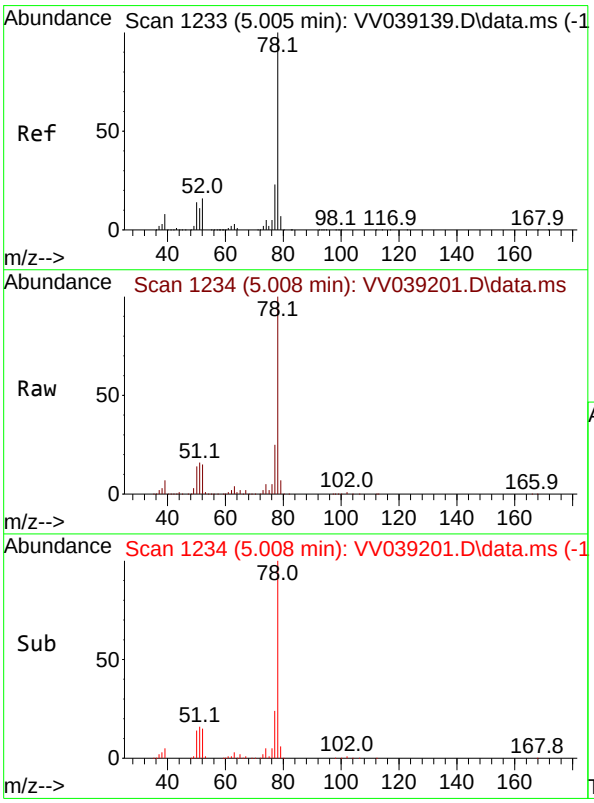
#39
Methylcyclohexane
Concen: 16.976 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 83 Resp: 217201

Ion	Ratio	Lower	Upper
83	100		
55	77.3	60.5	90.7
98	48.6	37.8	56.6

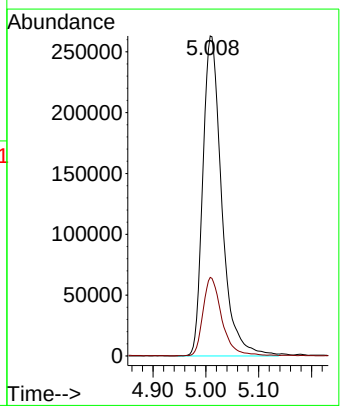


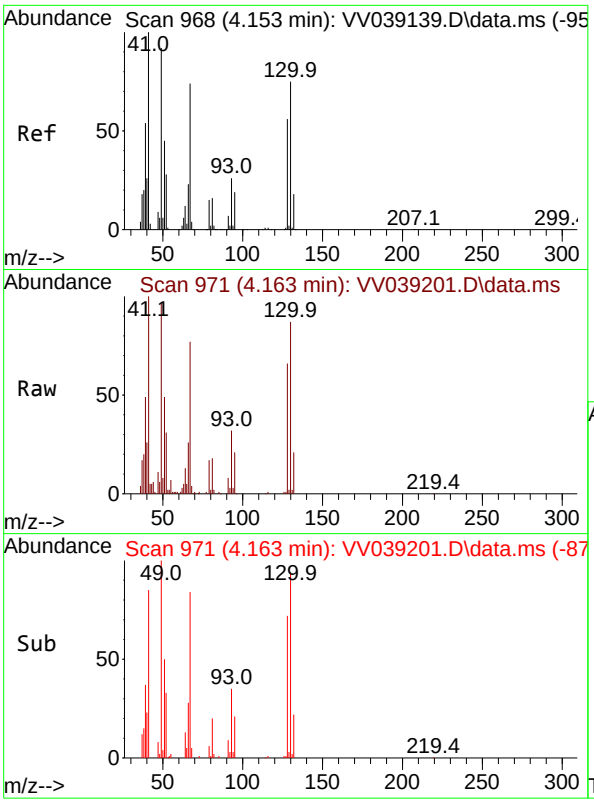


#40
Benzene
Concen: 18.968 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 78 Resp: 654407

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.7	28.1



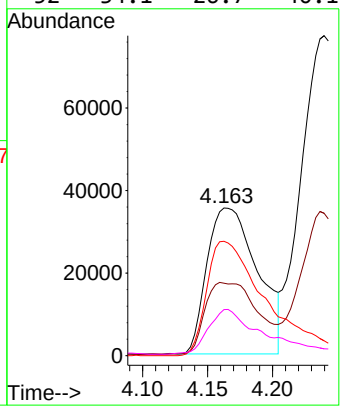


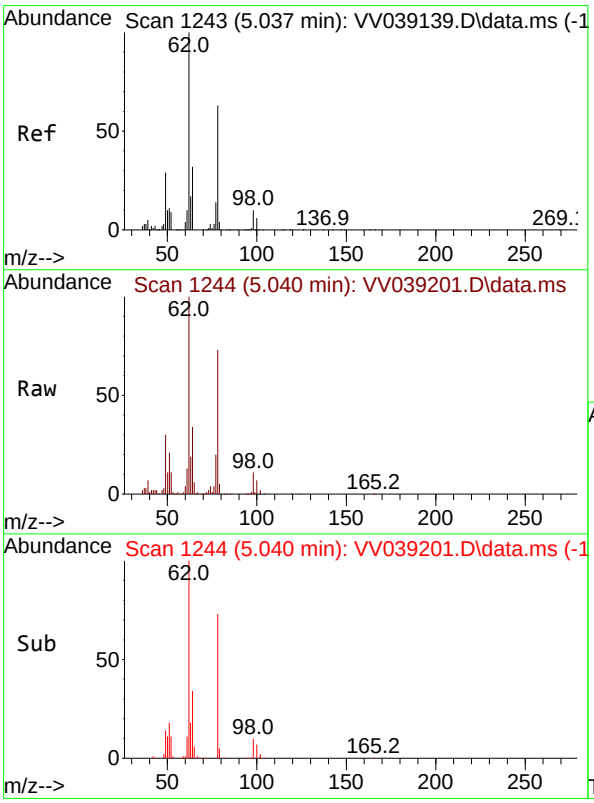
#41
Methacrylonitrile
Concen: 17.814 ug/l
RT: 4.163 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 41 Resp: 96114

Ion	Ratio	Lower	Upper
41	100		
39	51.5	42.2	63.2
67	96.6	67.9	101.9
52	34.1	26.7	40.1

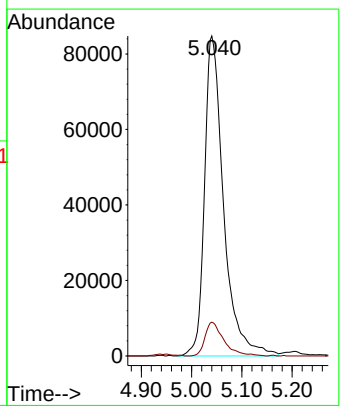


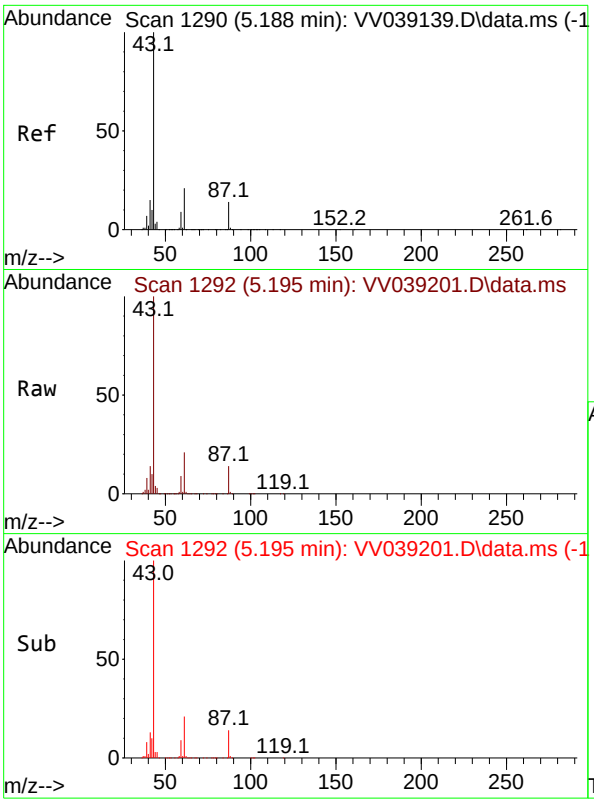


#42
1,2-Dichloroethane
Concen: 18.489 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 62 Resp: 223503

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	19.2



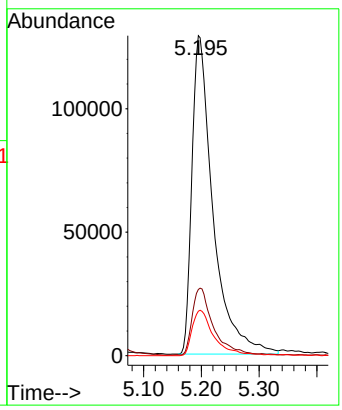


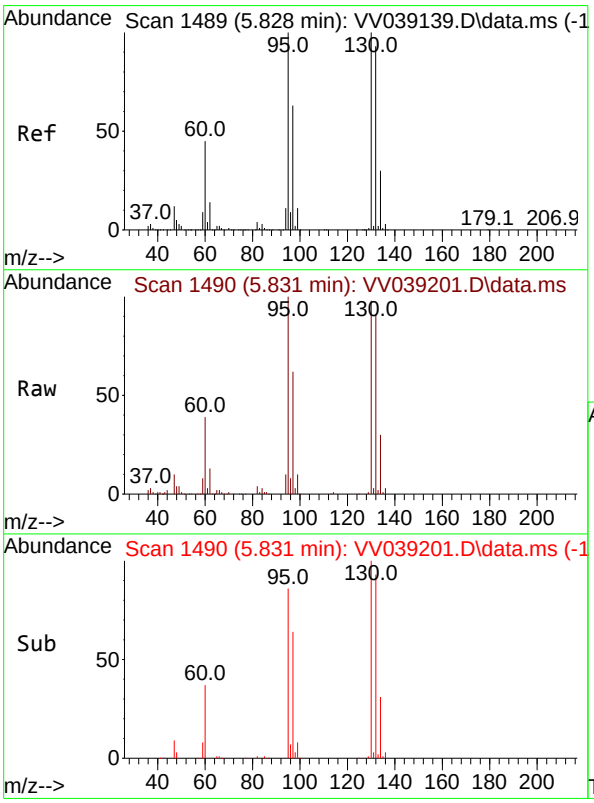
#43
Isopropyl Acetate
Concen: 18.710 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 43 Resp: 327971

Ion	Ratio	Lower	Upper
43	100		
61	20.5	15.9	23.9
87	14.8	11.0	16.6

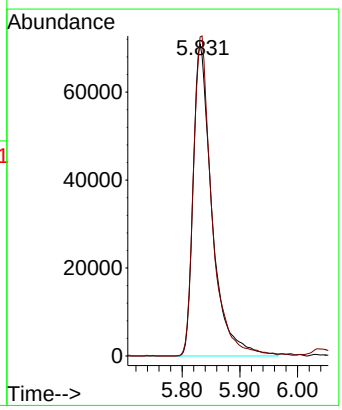


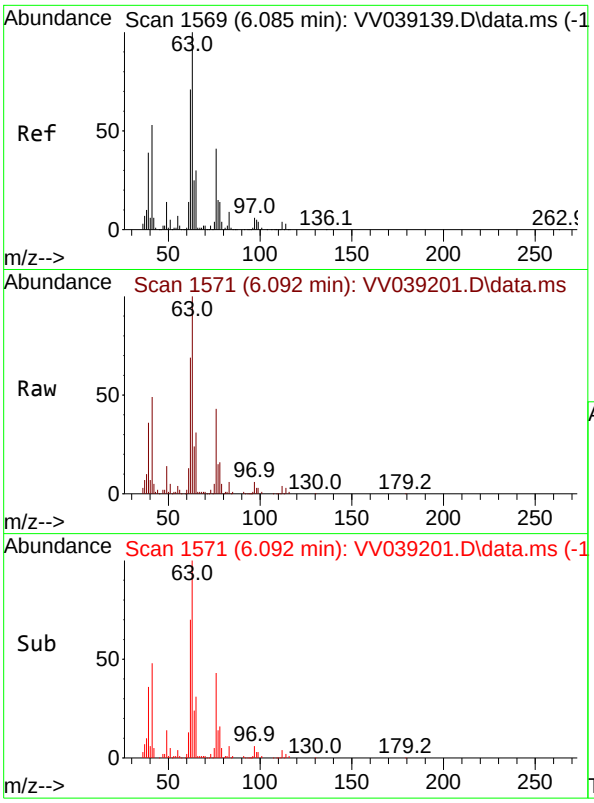


#44
Trichloroethene
Concen: 20.116 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:130 Resp: 160144

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	199.2



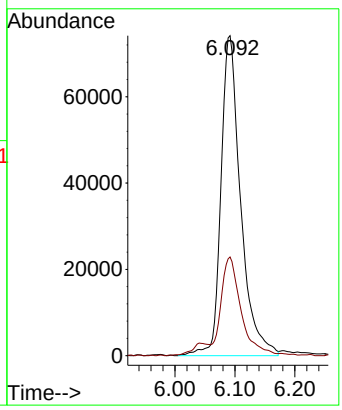


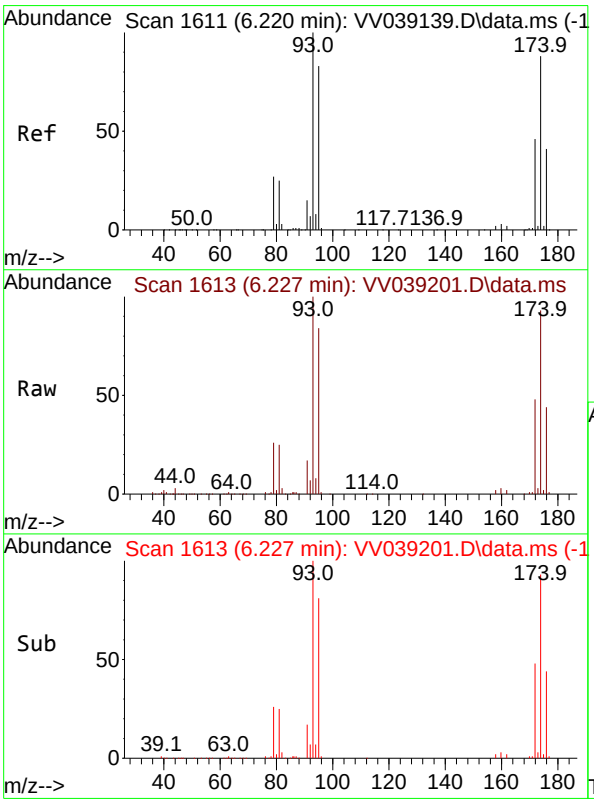
#45
1,2-Dichloropropane
Concen: 19.664 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 63 Resp: 168622

Ion	Ratio	Lower	Upper
63	100		
65	30.6	23.7	35.5

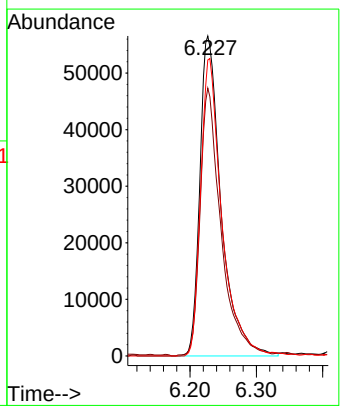


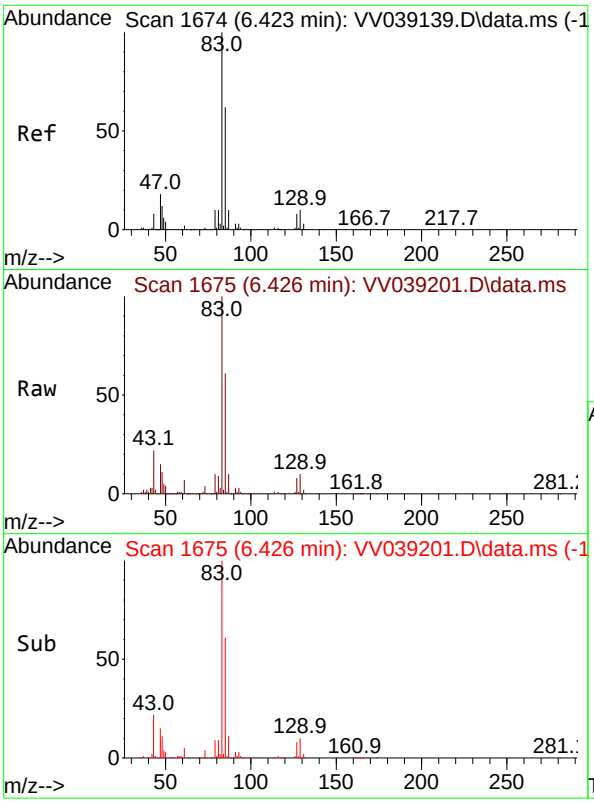


#46
Dibromomethane
Concen: 19.221 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 93 Resp: 126156

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	92.1	69.0	103.4



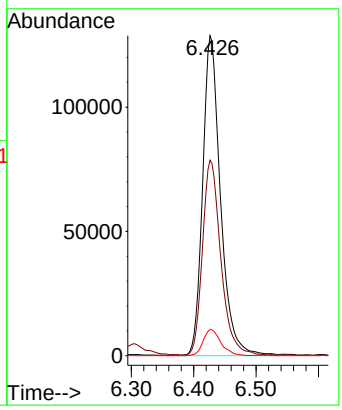


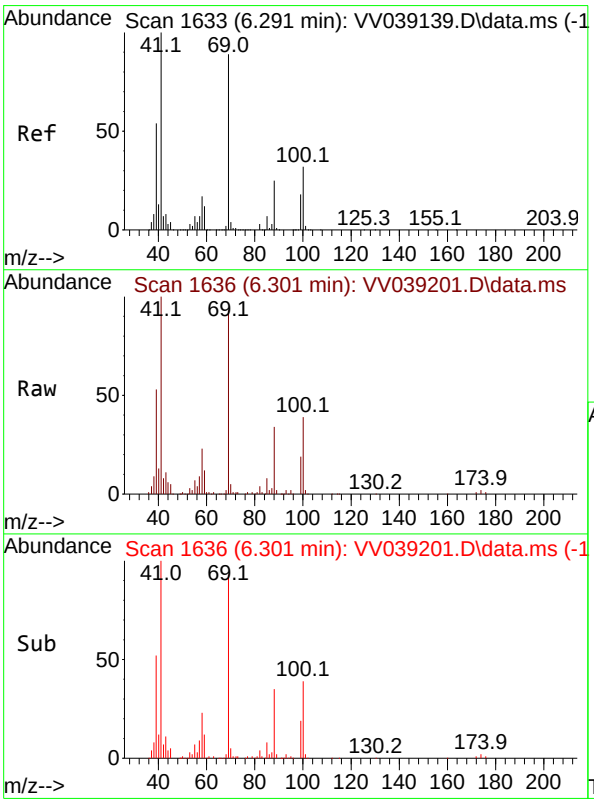
#47
Bromodichloromethane
Concen: 18.920 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 83 Resp: 256722

Ion	Ratio	Lower	Upper
83	100		
85	60.8	49.7	74.5
127	8.2	6.6	9.8

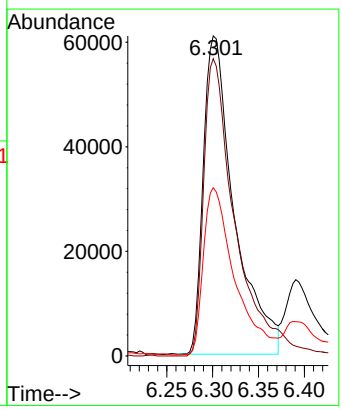


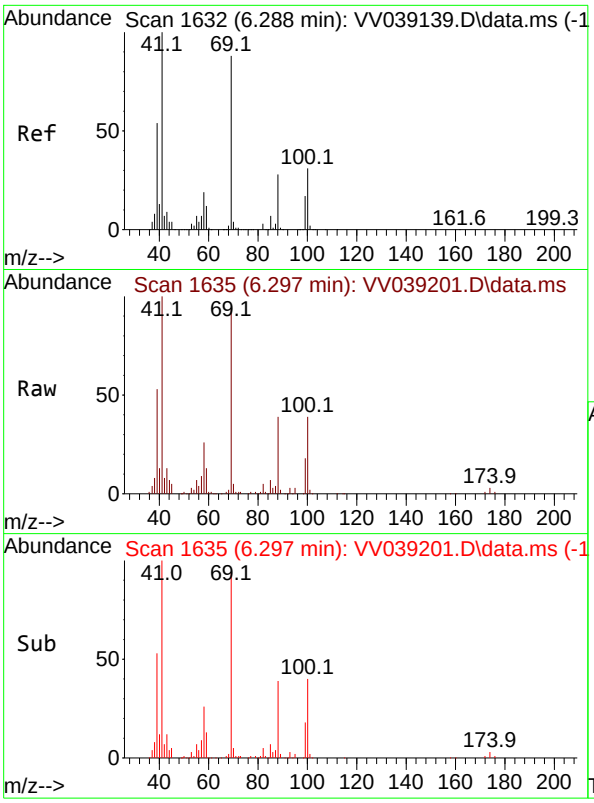


#48
Methyl methacrylate
Concen: 17.992 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 41 Resp: 142959

Ion	Ratio	Lower	Upper
41	100		
69	96.3	72.4	108.6
39	53.5	42.5	63.7



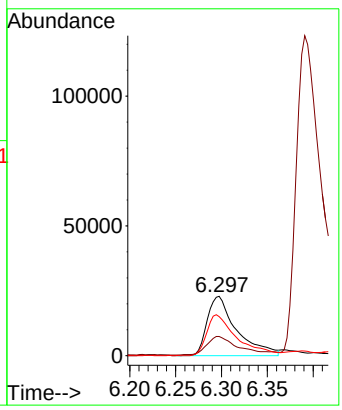


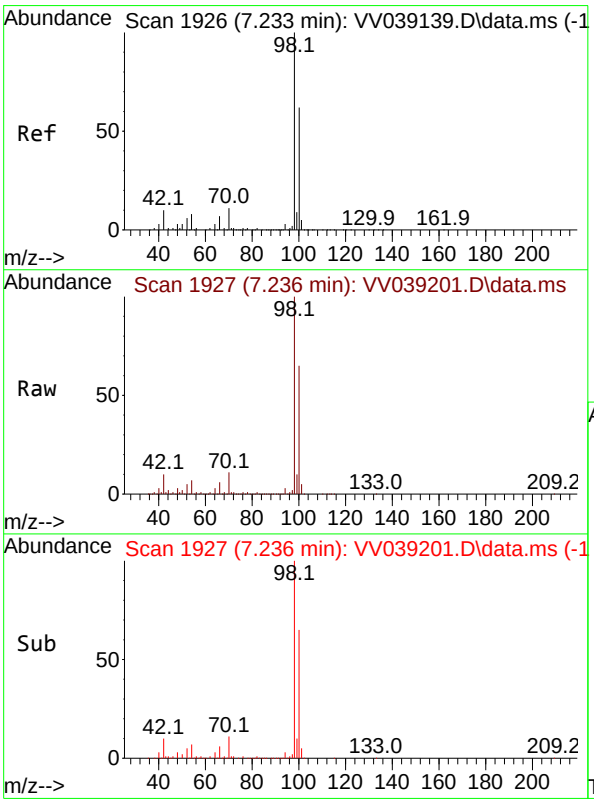
#49
1,4-Dioxane
Concen: 398.926 ug/l
RT: 6.297 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 88 Resp: 51154

Ion	Ratio	Lower	Upper
88	100		
43	34.4	25.1	37.7
58	70.2	53.6	80.4

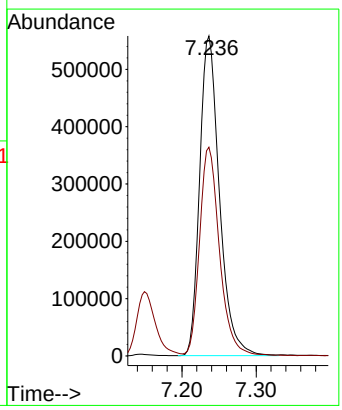


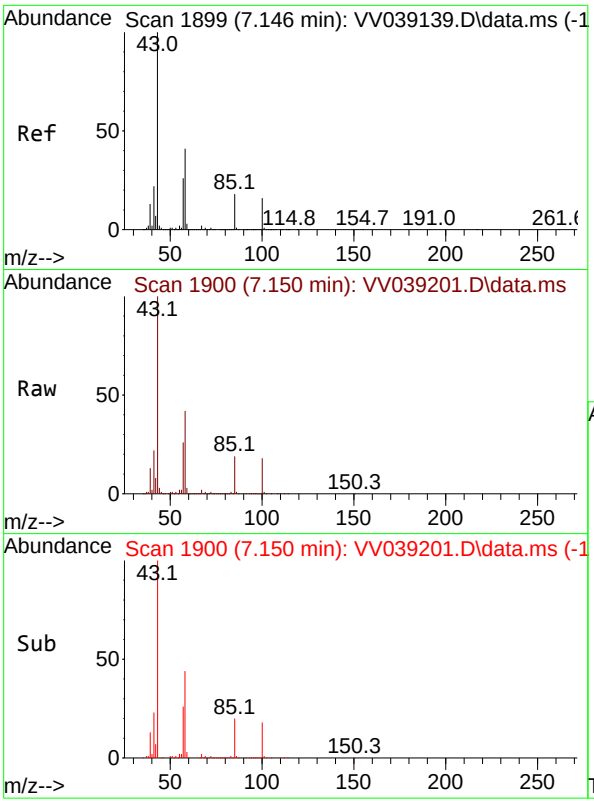


#50
Toluene-d8
Concen: 50.194 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 98 Resp: 1033075

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.2	78.2



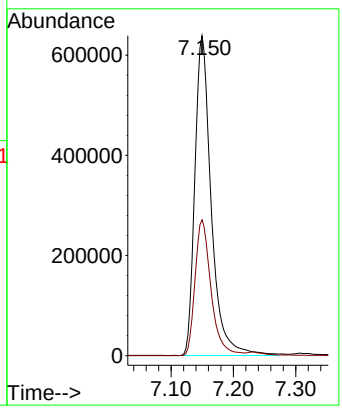


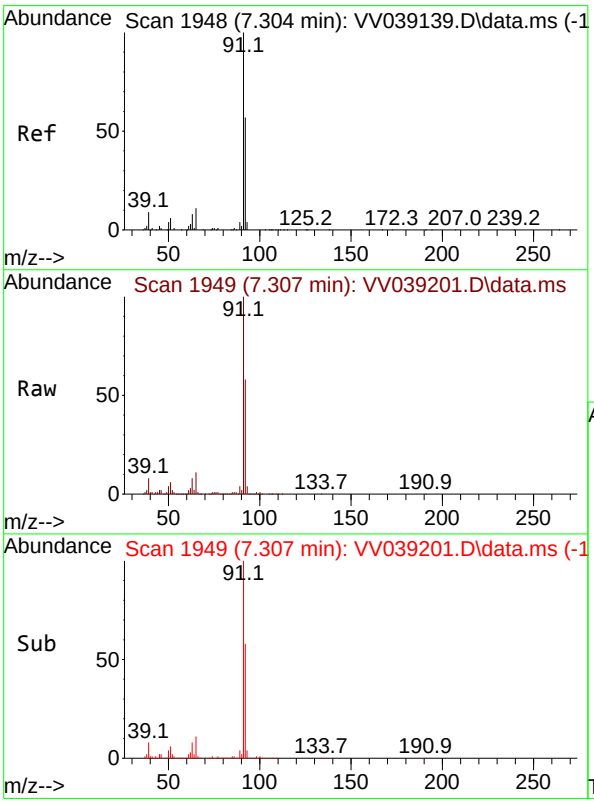
#51
4-Methyl-2-Pentanone
Concen: 101.045 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 43 Resp: 1165241

Ion	Ratio	Lower	Upper
43	100		
58	41.5	32.3	48.5

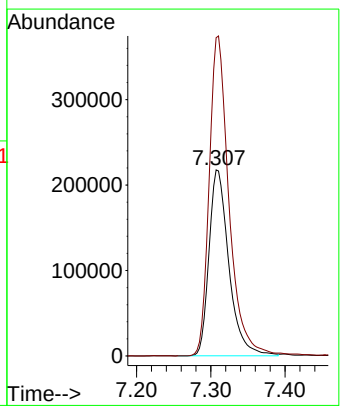


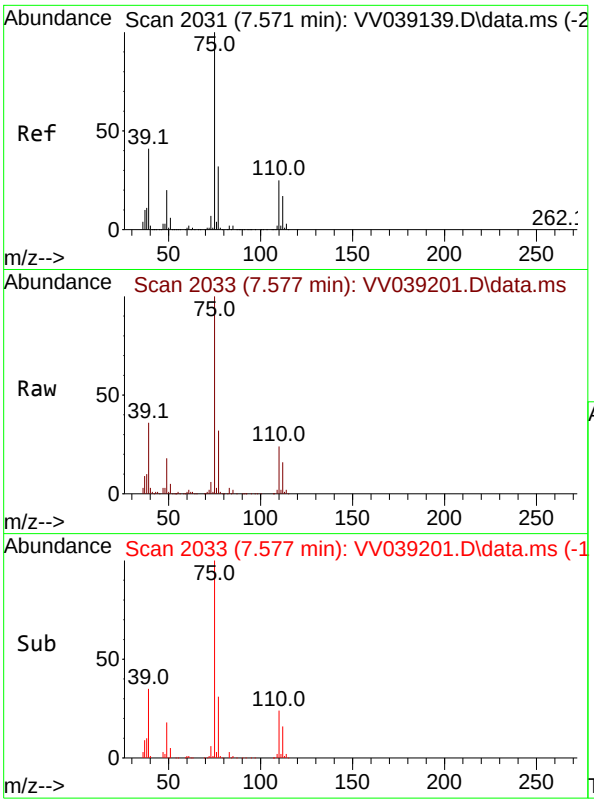


#52
Toluene
Concen: 20.259 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 92 Resp: 405246

Ion	Ratio	Lower	Upper
92	100		
91	171.9	139.2	208.8



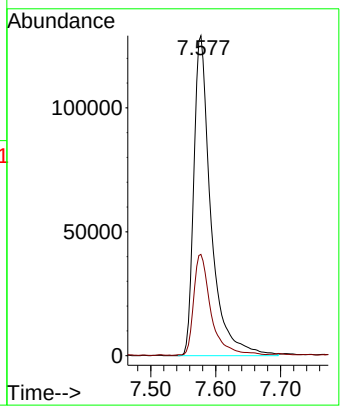


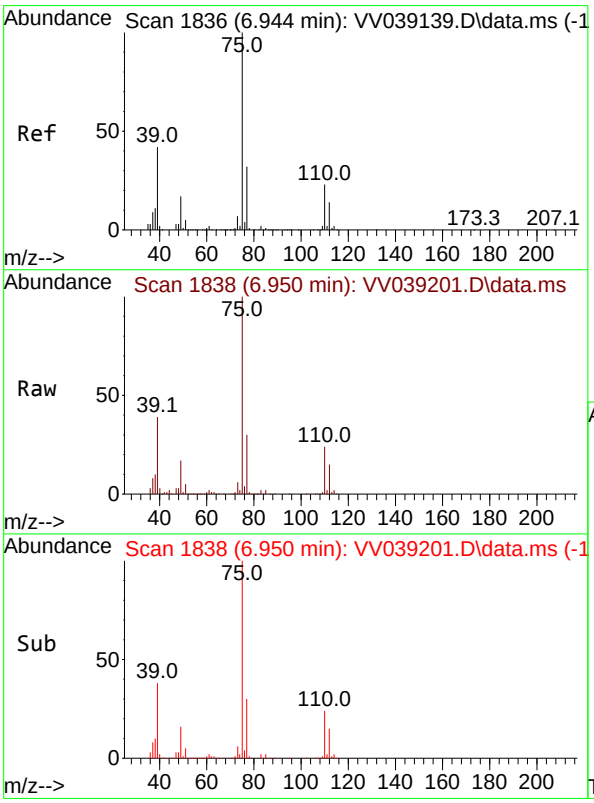
#53
t-1,3-Dichloropropene
Concen: 20.059 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 75 Resp: 237200

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.9	38.9

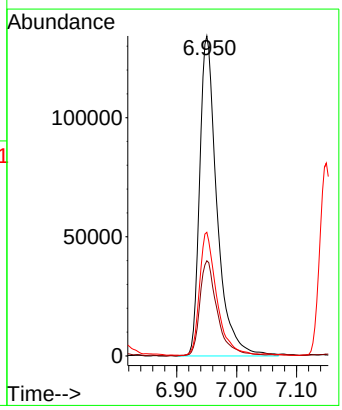


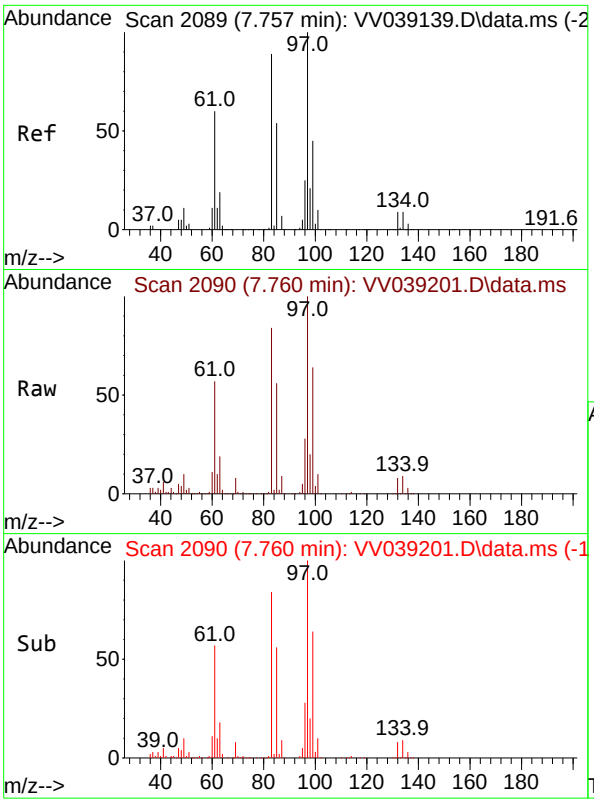


#54
cis-1,3-Dichloropropene
Concen: 20.676 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 269902

Ion	Ratio	Lower	Upper
75	100		
77	29.7	25.5	38.3
39	38.4	33.8	50.6



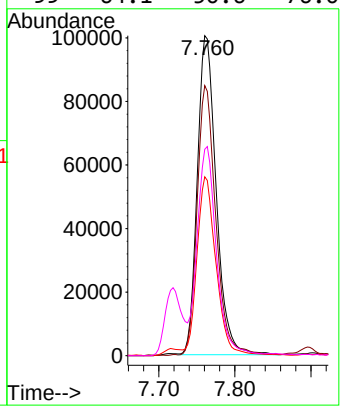


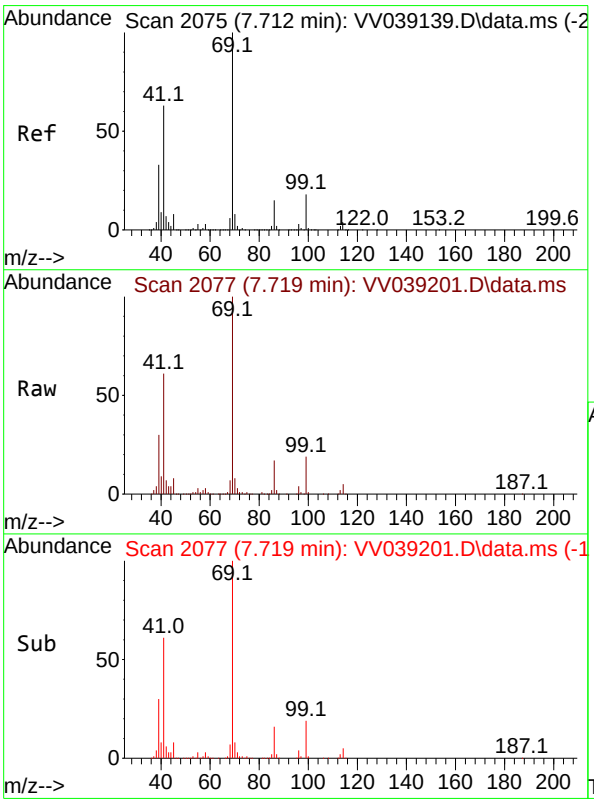
#55
1,1,2-Trichloroethane
Concen: 19.346 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 97 Resp: 173521

Ion	Ratio	Lower	Upper
97	100		
83	84.4	71.1	106.7
85	55.6	44.6	67.0
99	64.1	50.6	76.0

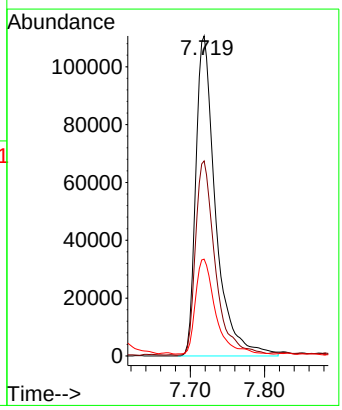


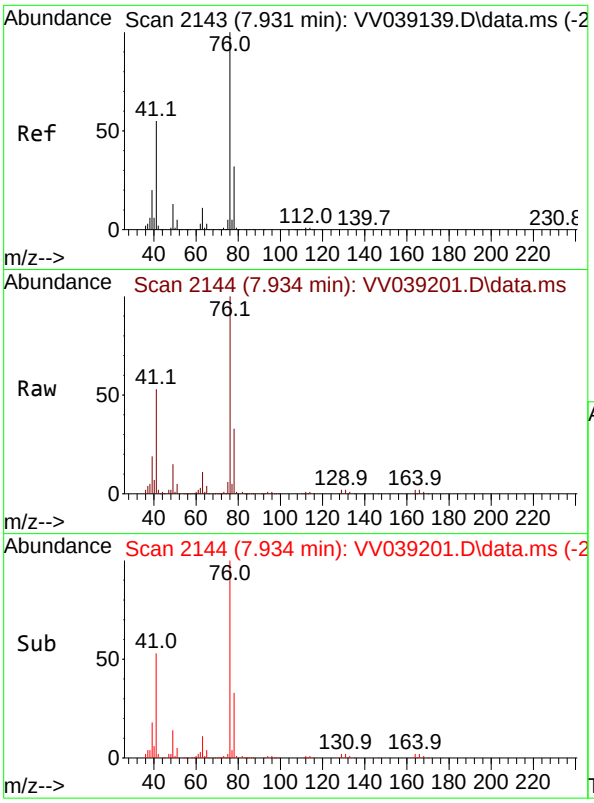


#56
Ethyl methacrylate
Concen: 19.302 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 69 Resp: 205595

Ion	Ratio	Lower	Upper
69	100		
41	60.5	50.7	76.1
39	29.6	26.0	39.0



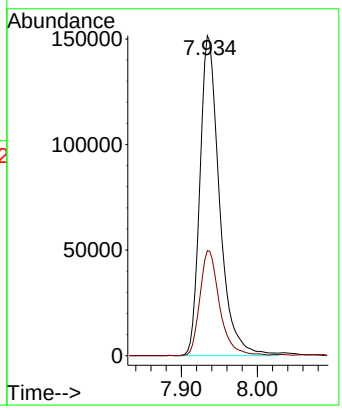


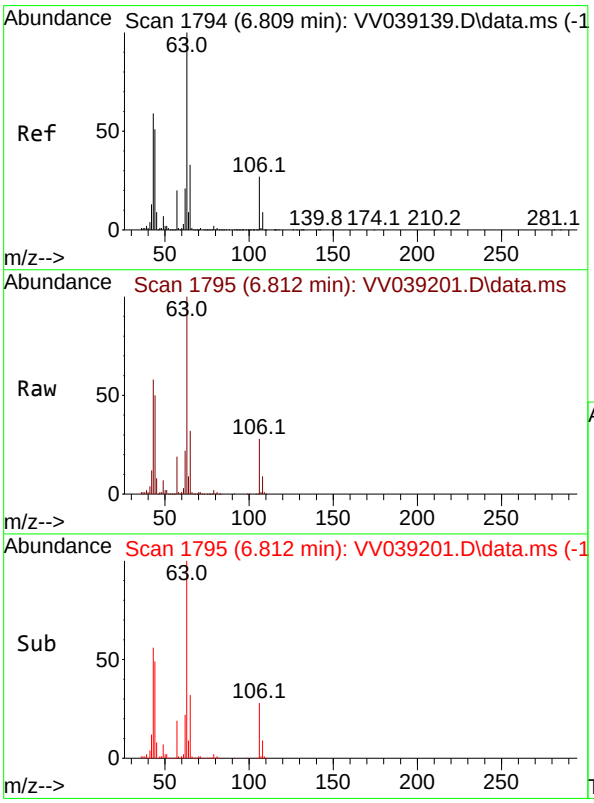
#57
1,3-Dichloropropane
Concen: 19.140 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 76 Resp: 270929

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.1	39.1

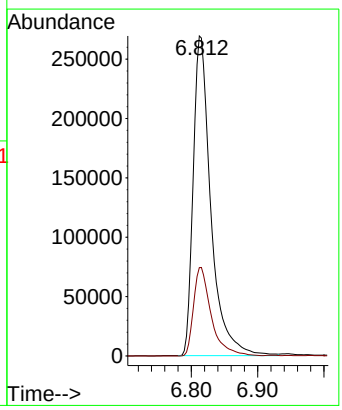


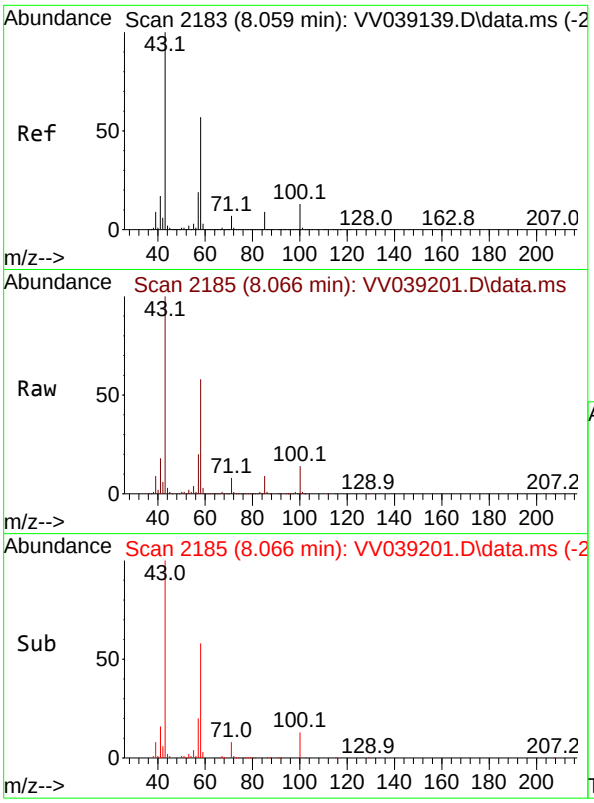


#58
2-Chloroethyl Vinyl ether
Concen: 89.200 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 63 Resp: 497770

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.1	33.1



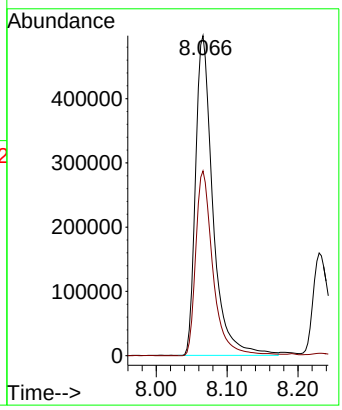


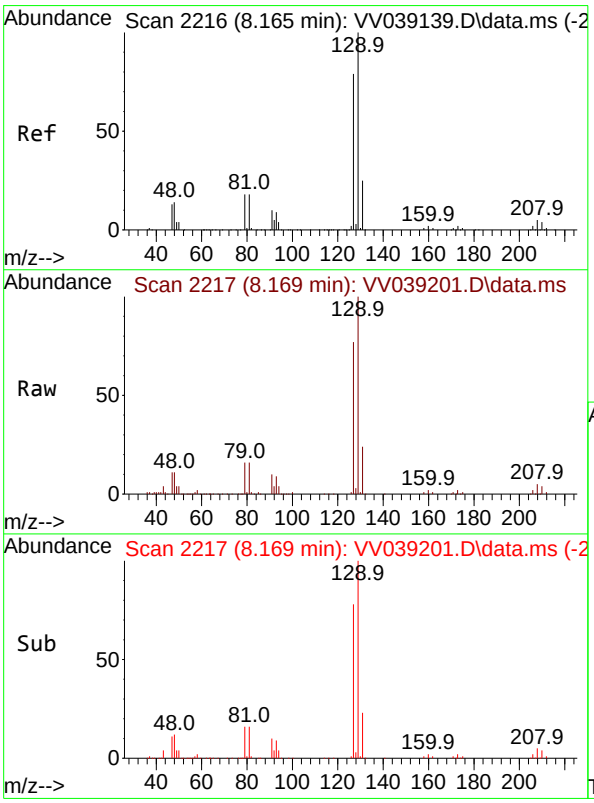
#59
2-Hexanone
Concen: 92.530 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 43 Resp: 847553

Ion	Ratio	Lower	Upper
43	100		
58	57.5	28.3	85.0

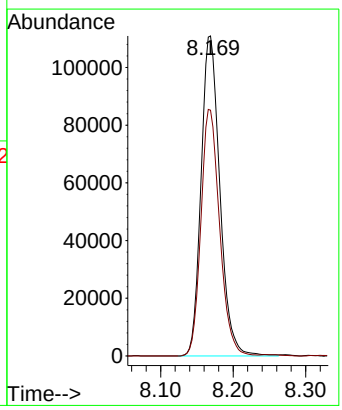


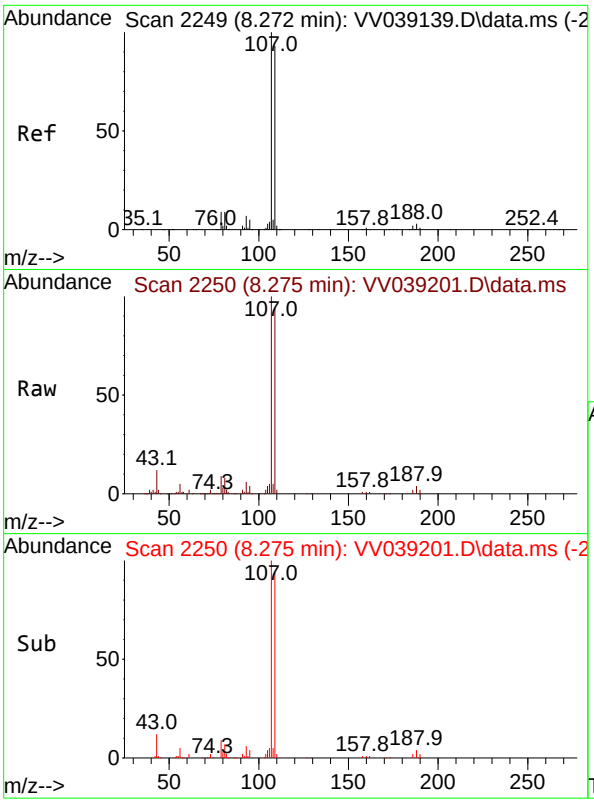


#60
Dibromochloromethane
Concen: 19.526 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:129 Resp: 199559

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.3	117.9



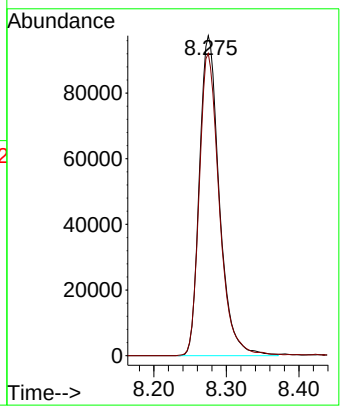


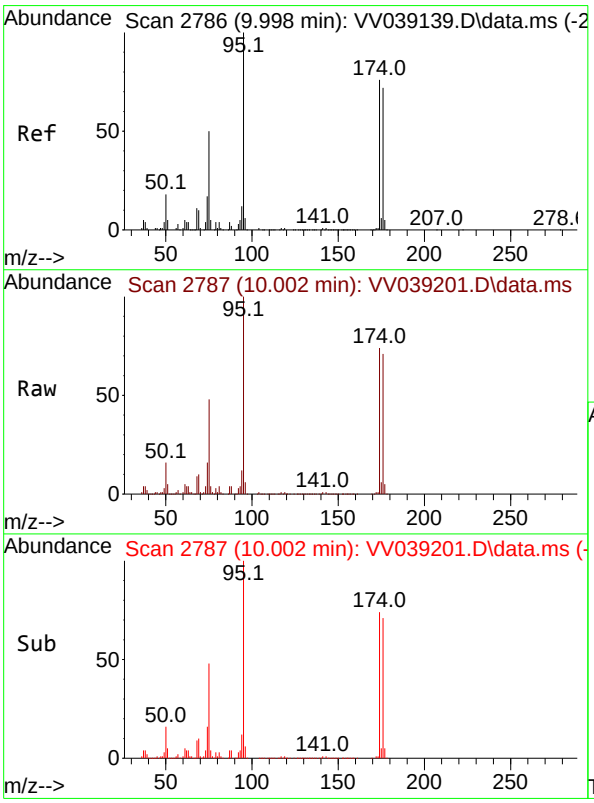
#61
1,2-Dibromoethane
Concen: 20.197 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:107 Resp: 185266

Ion	Ratio	Lower	Upper
107	100		
109	95.5	74.6	112.0

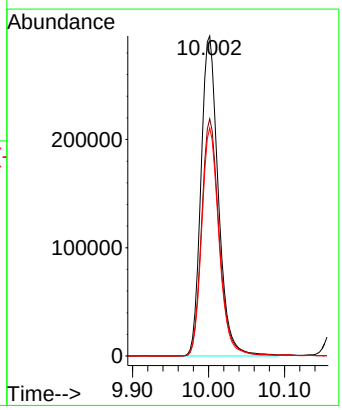


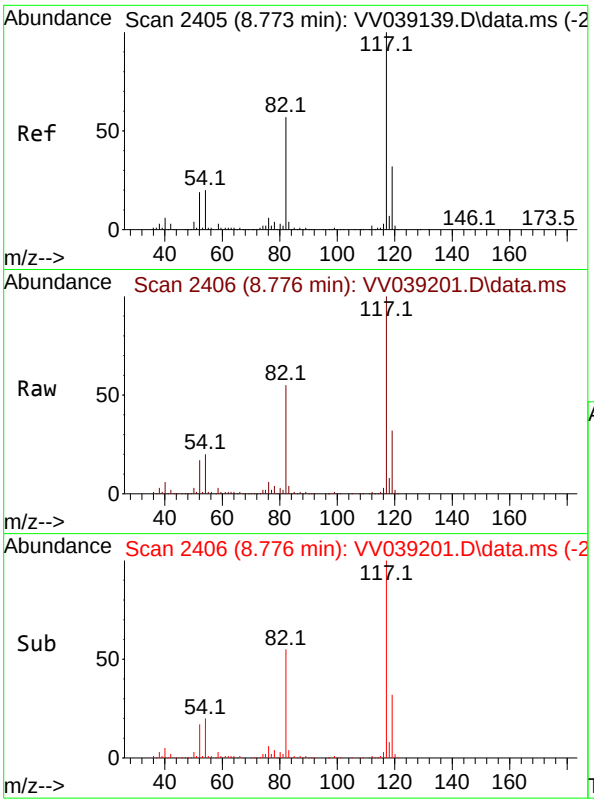


#62
4-Bromofluorobenzene
Concen: 55.374 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 95 Resp: 469175

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	150.4
176	71.3	0.0	144.2



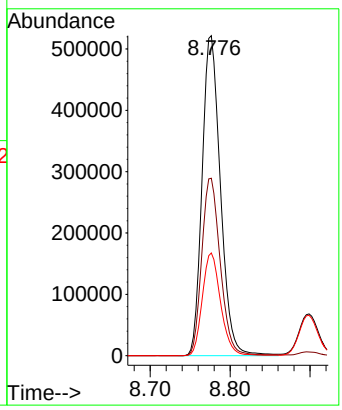


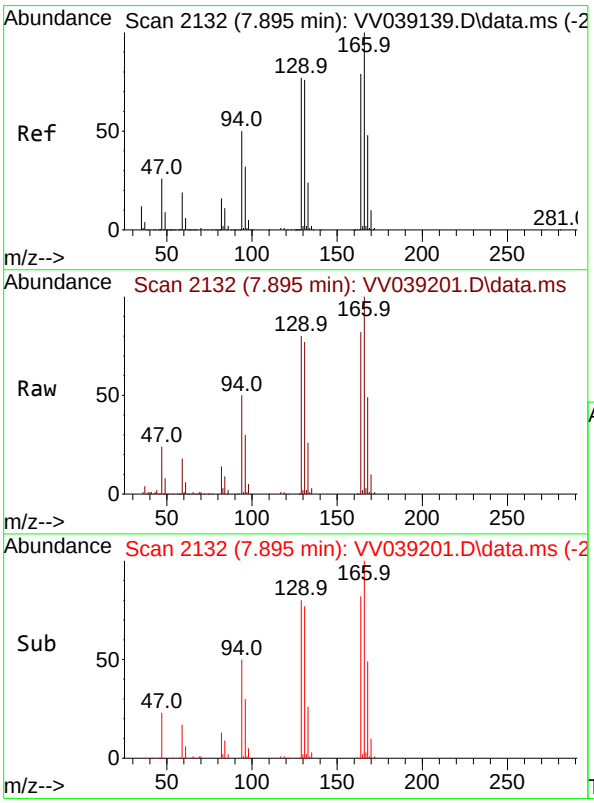
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:117 Resp: 834845

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.4	68.2
119	32.1	25.6	38.4

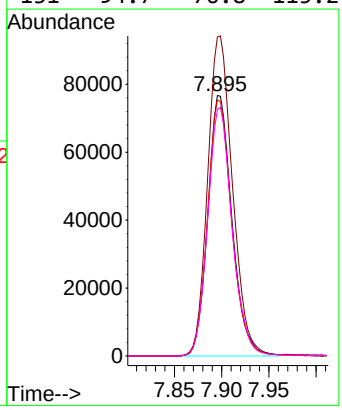


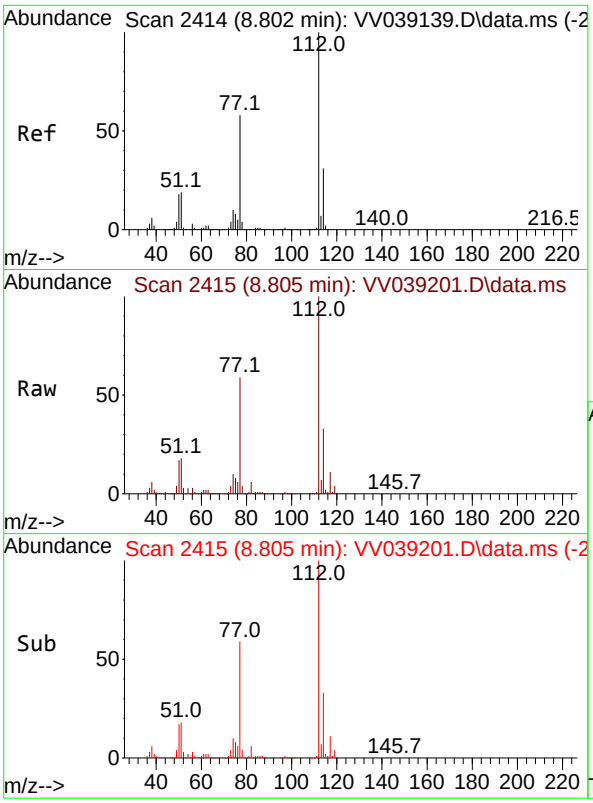


#64
Tetrachloroethene
Concen: 19.503 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:164 Resp: 136377

Ion	Ratio	Lower	Upper
164	100		
166	122.5	101.6	152.4
129	98.2	78.5	117.7
131	94.7	76.8	115.2



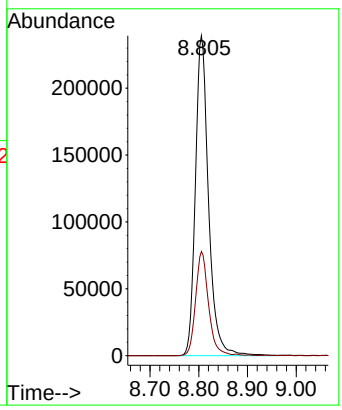


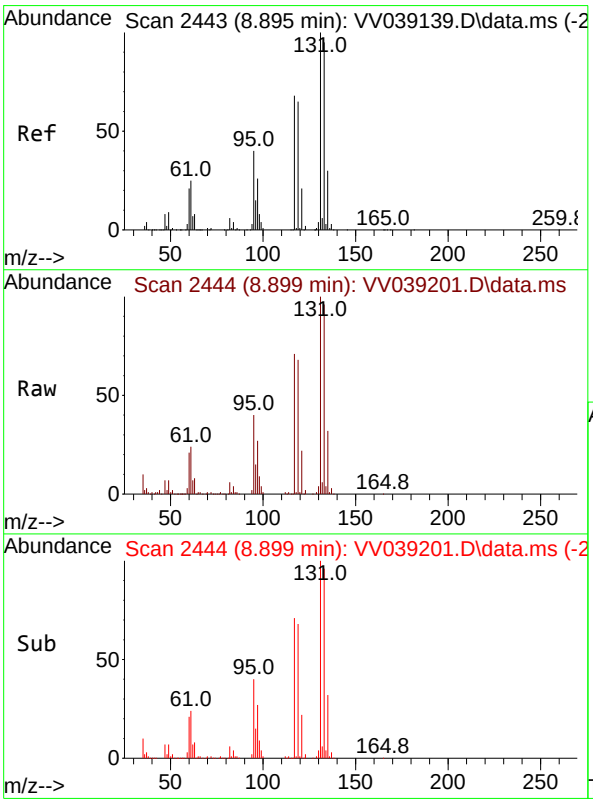
#65
Chlorobenzene
Concen: 19.299 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:112 Resp: 448775

Ion	Ratio	Lower	Upper
112	100		
114	32.5	24.6	37.0

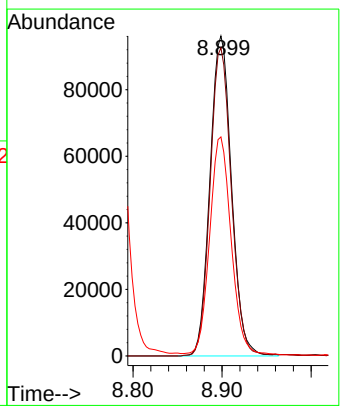


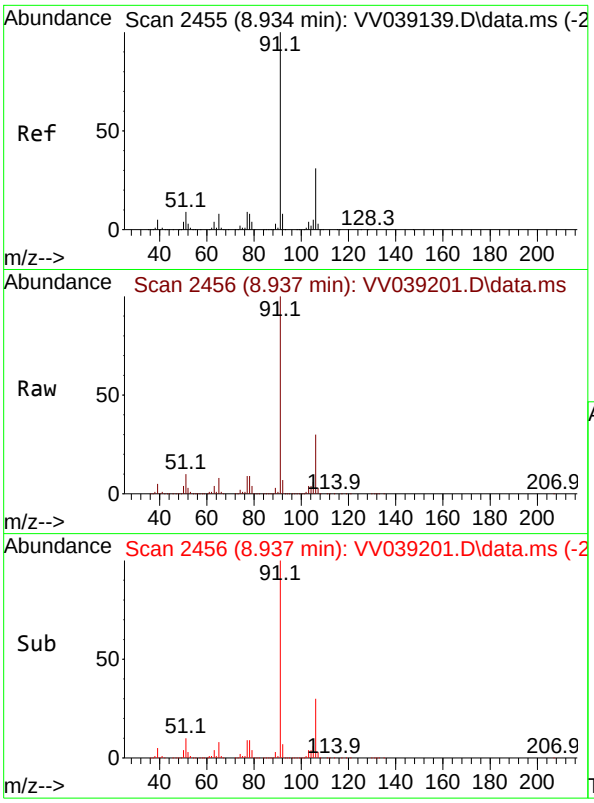


#66
1,1,1,2-Tetrachloroethane
Concen: 19.241 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:131 Resp: 161669

Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.3	141.8
119	68.1	33.3	99.8



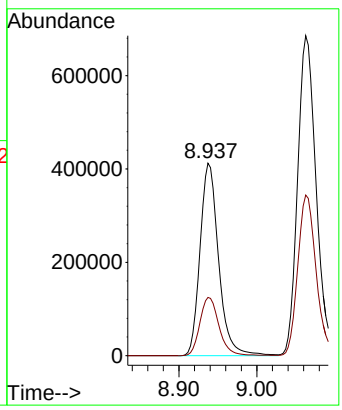


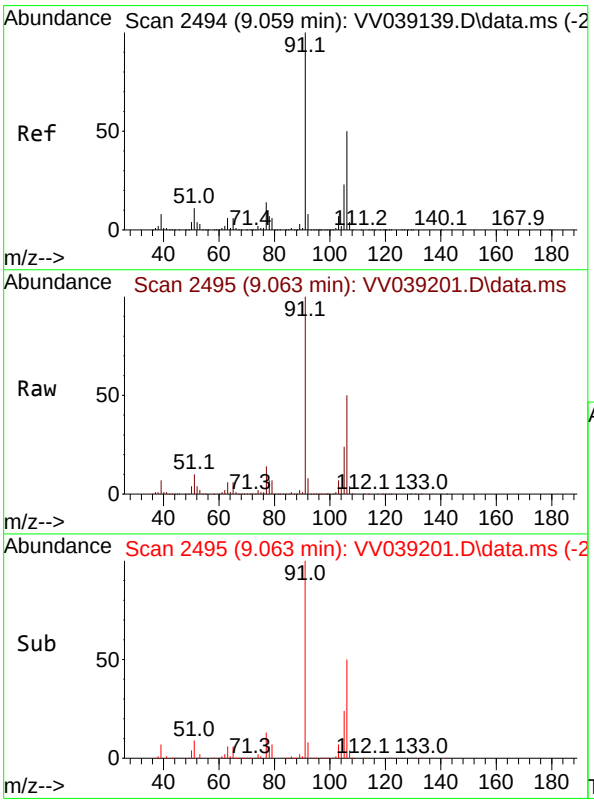
#67
Ethyl Benzene
Concen: 19.409 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 91 Resp: 683210

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.6	37.0

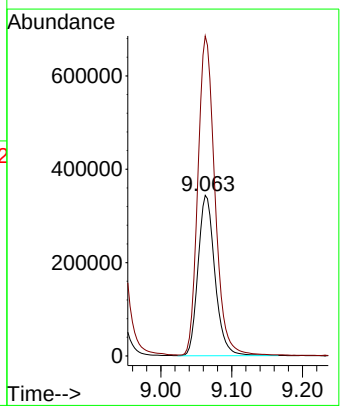


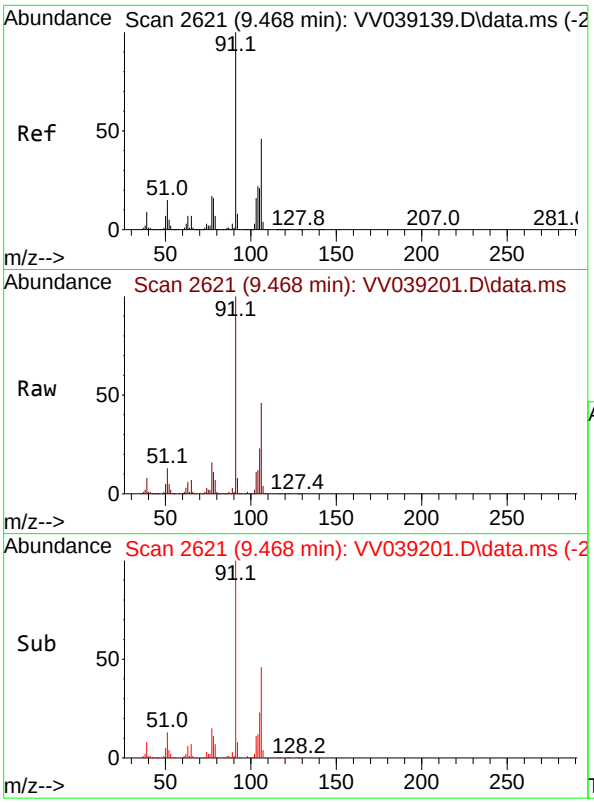


#68
m/p-Xylenes
Concen: 41.841 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:106 Resp: 568444

Ion	Ratio	Lower	Upper
106	100		
91	200.0	162.5	243.7



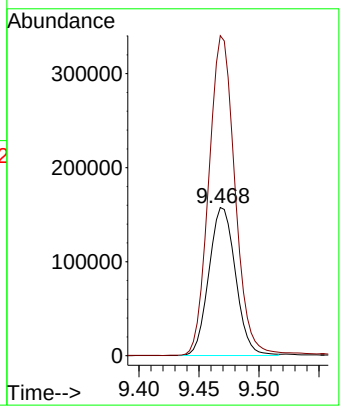


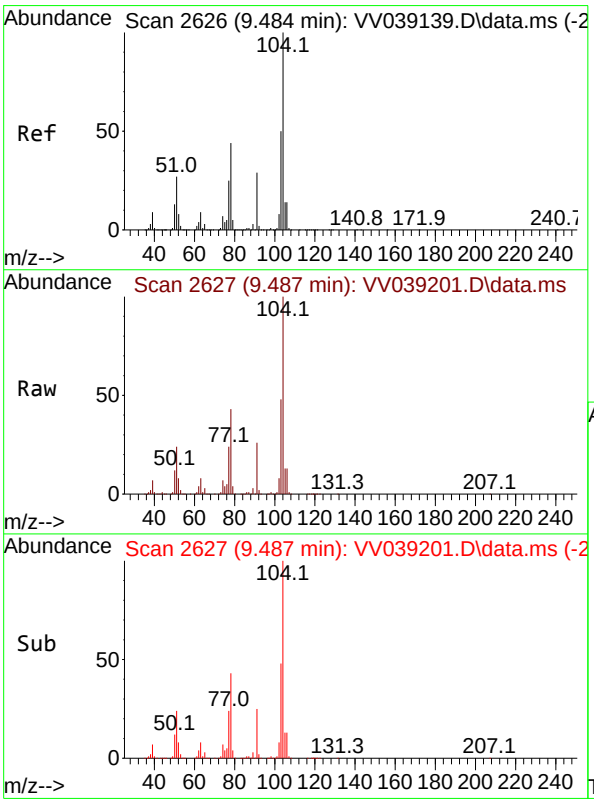
#69
o-Xylene
Concen: 20.226 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:106 Resp: 243305

Ion	Ratio	Lower	Upper
106	100		
91	213.6	109.1	327.3

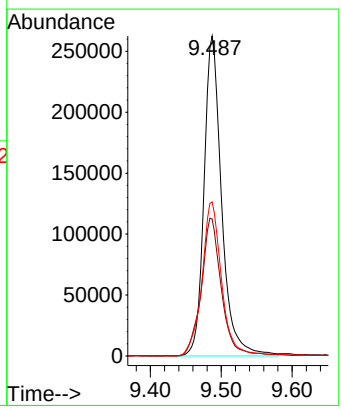


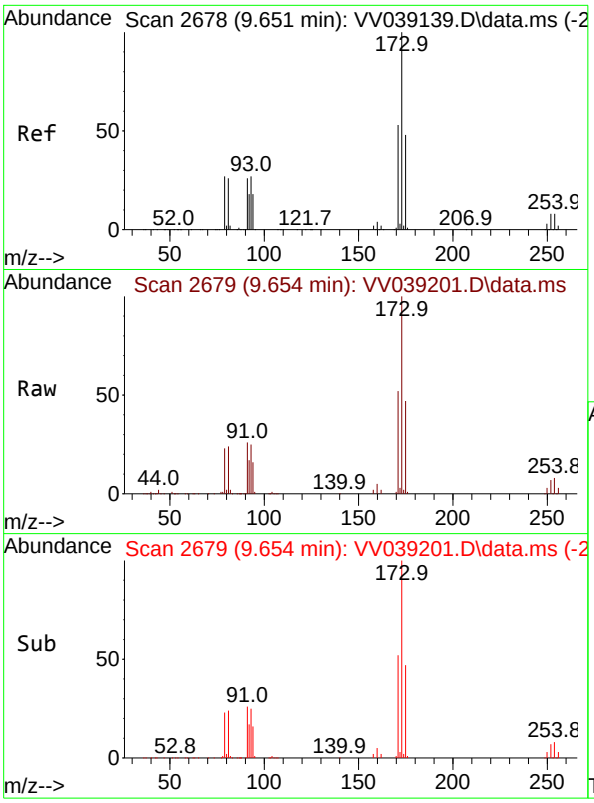


#70
Styrene
Concen: 18.755 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:104 Resp: 454259

Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.8	59.6
103	53.8	43.4	65.2



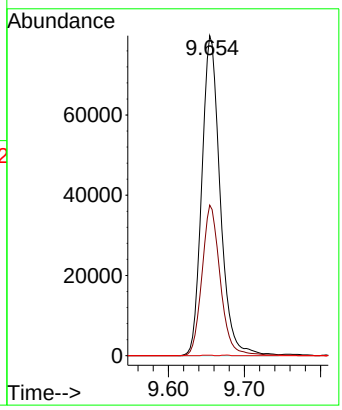


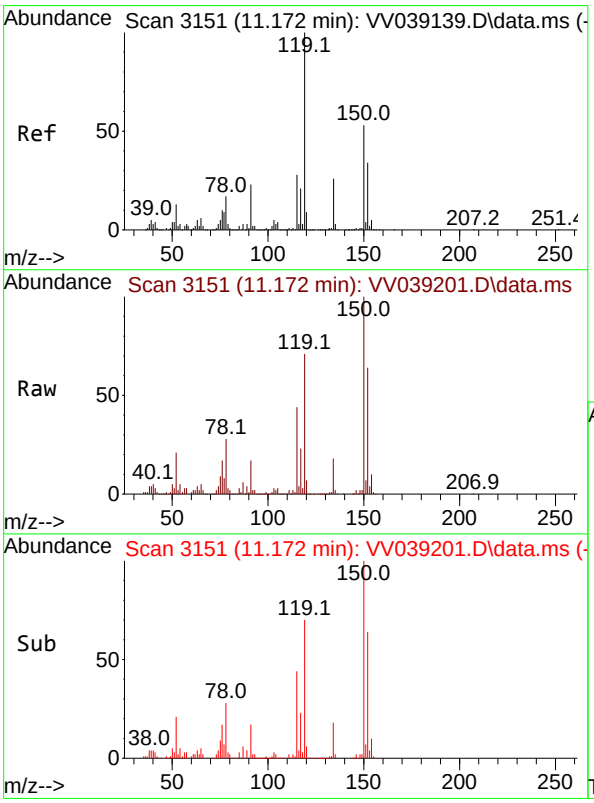
#71
Bromoform
Concen: 20.366 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:173 Resp: 133666

Ion	Ratio	Lower	Upper
173	100		
175	47.1	23.9	71.7
254	0.1	0.1	0.1

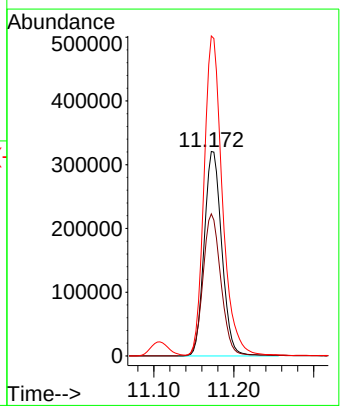


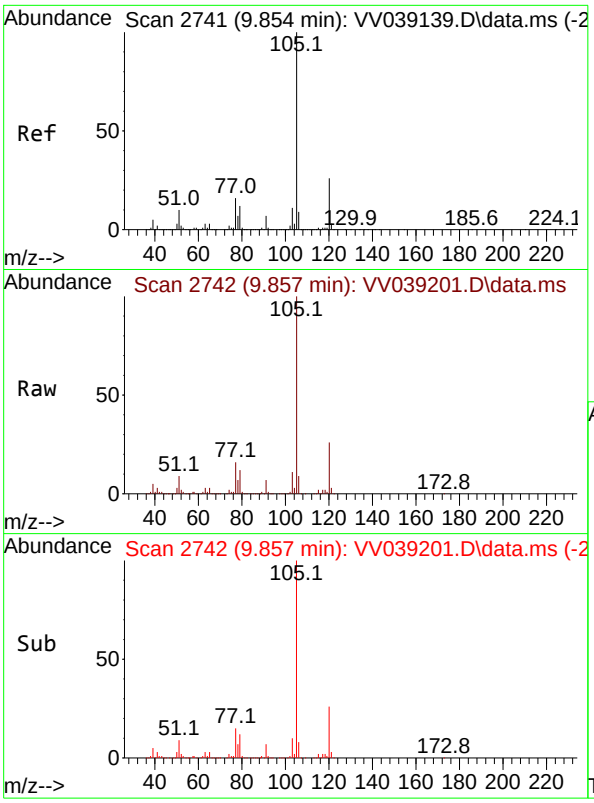


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:152 Resp: 490803

Ion	Ratio	Lower	Upper
152	100		
115	70.8	44.8	134.4
150	163.1	0.0	353.8



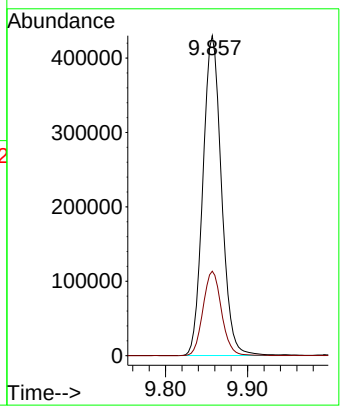


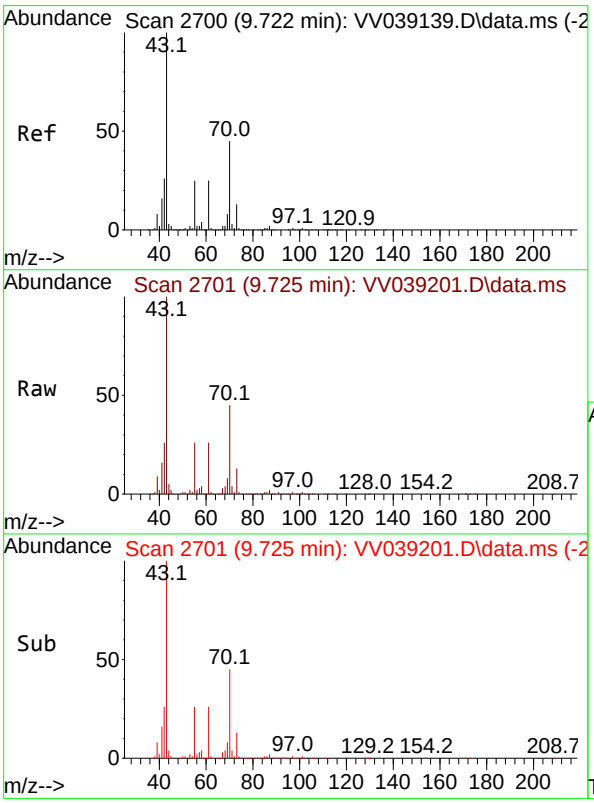
#73
Isopropylbenzene
Concen: 18.990 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:105 Resp: 676001

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.1

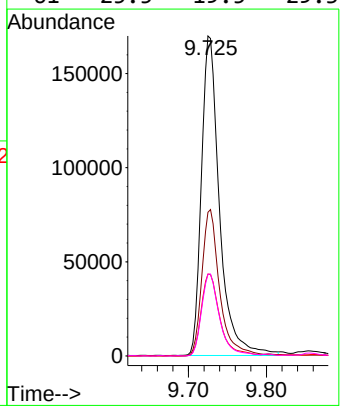


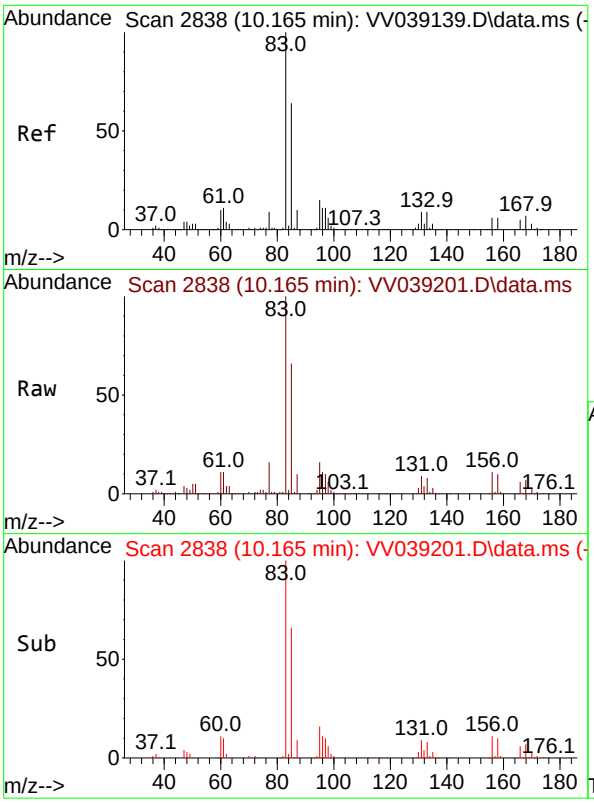


#74
N-amyl acetate
Concen: 19.249 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 43 Resp: 273330

Ion	Ratio	Lower	Upper
43	100		
70	45.0	35.4	53.0
55	26.4	20.6	30.8
61	25.5	19.5	29.3



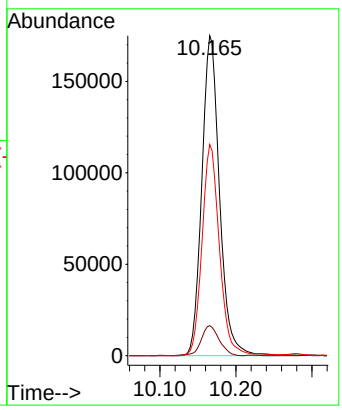


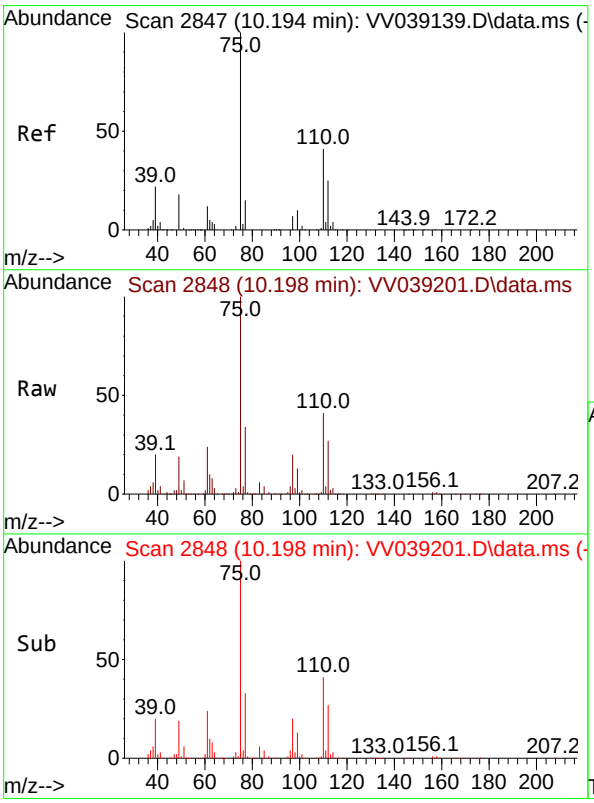
#75
1,1,2,2-Tetrachloroethane
Concen: 18.144 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 83 Resp: 283007

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	64.5	31.9	95.9

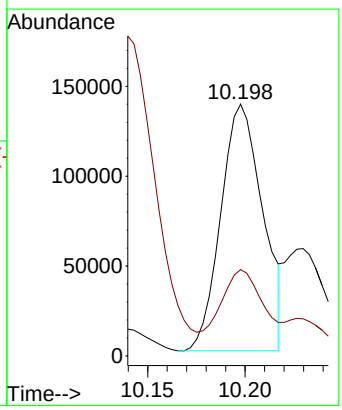


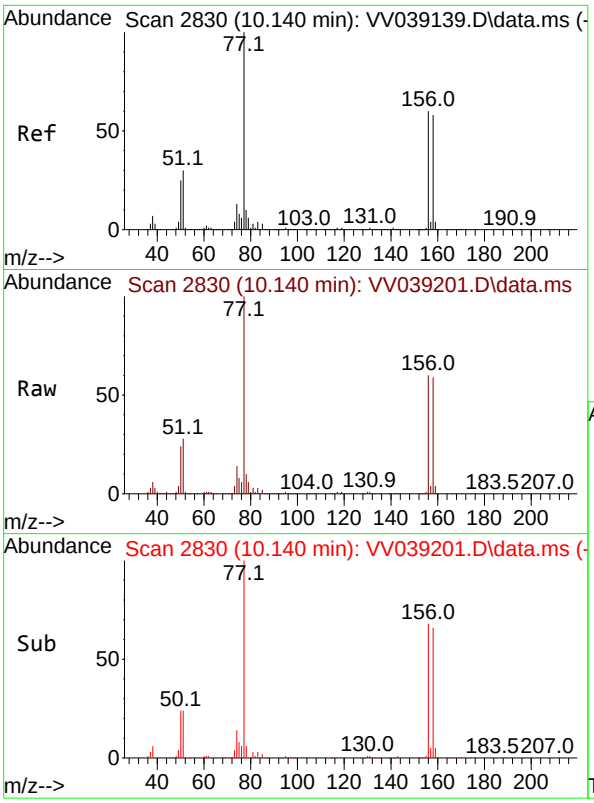


#76
1,2,3-Trichloropropane
Concen: 18.374 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 205329

Ion	Ratio	Lower	Upper
75	100		
77	23.0	11.3	33.8



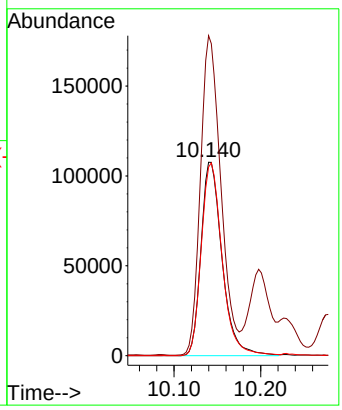


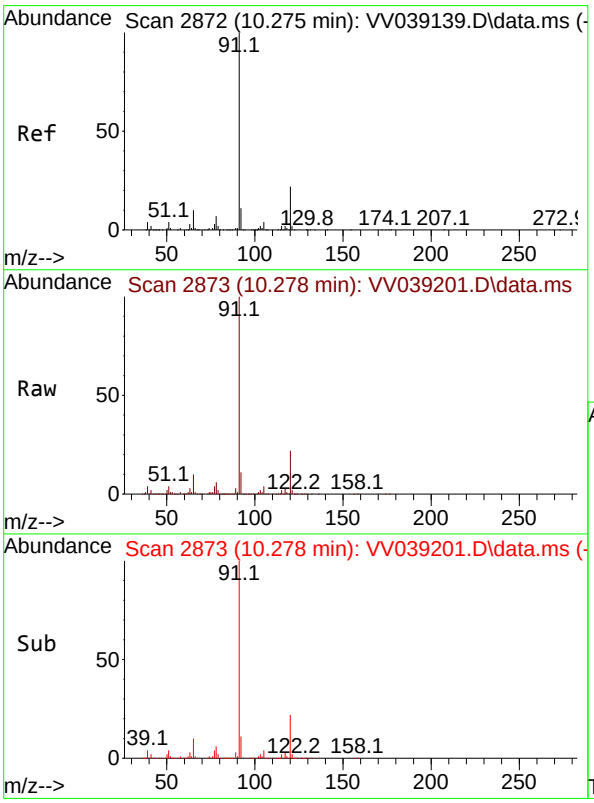
#77
Bromobenzene
Concen: 19.707 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:156 Resp: 182007

Ion	Ratio	Lower	Upper
156	100		
77	159.8	83.4	250.1
158	98.8	48.8	146.4

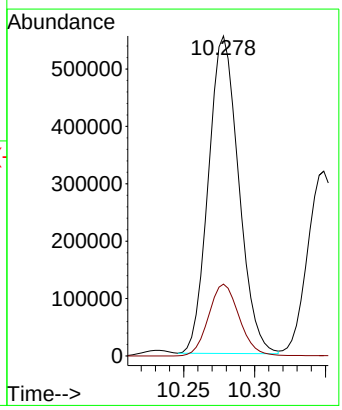


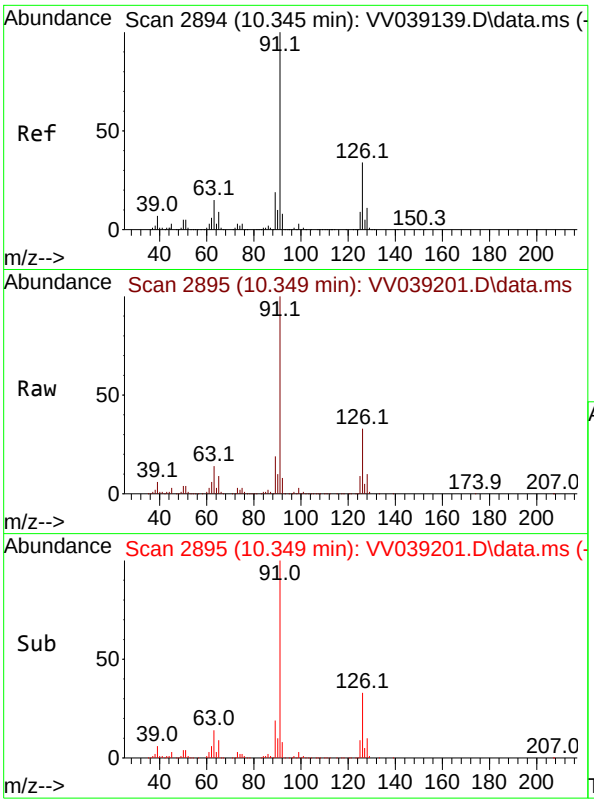


#78
n-propylbenzene
Concen: 18.966 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 91 Resp: 822195

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.1	33.3



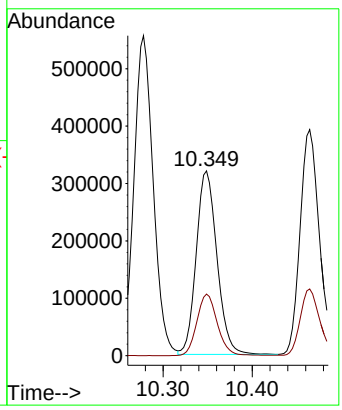


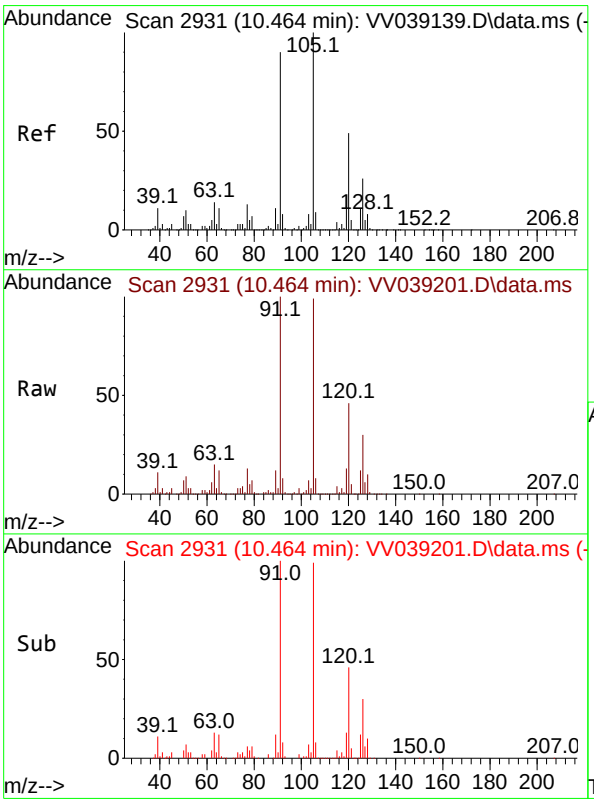
#79
2-Chlorotoluene
Concen: 19.879 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 91 Resp: 515642

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.7	50.0

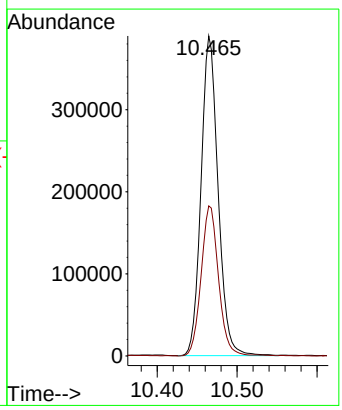


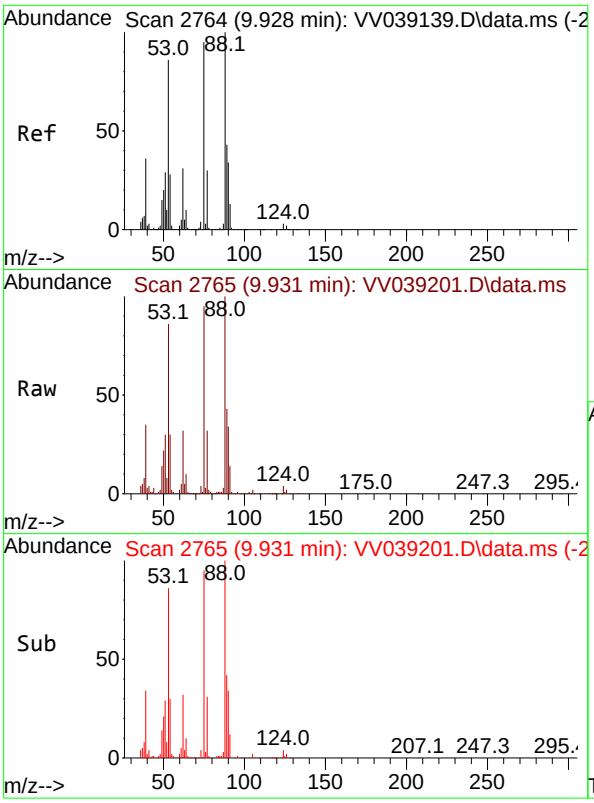


#80
1,3,5-Trimethylbenzene
Concen: 19.521 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:105 Resp: 577612

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.3	72.8



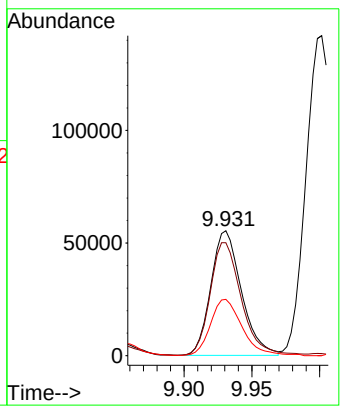


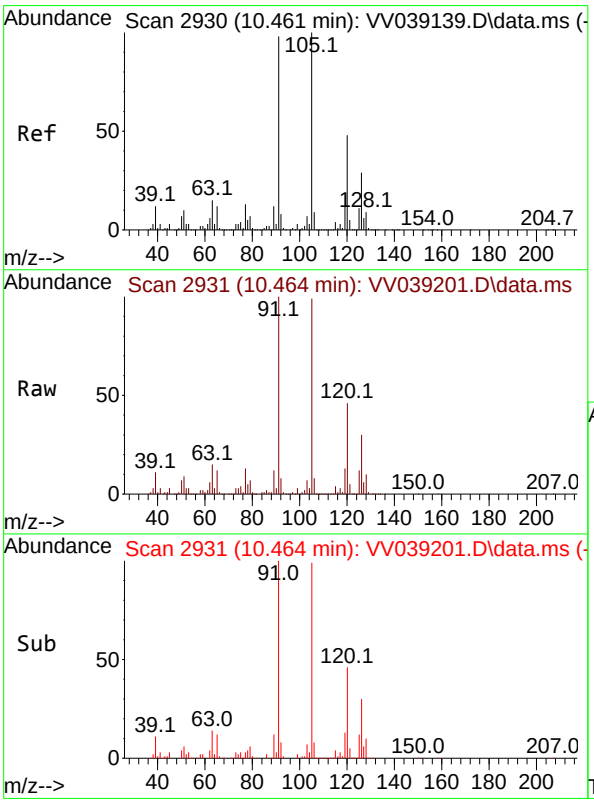
#81
trans-1,4-Dichloro-2-butene
Concen: 18.654 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 75 Resp: 86829

Ion	Ratio	Lower	Upper
75	100		
53	91.7	72.5	108.7
89	47.1	37.2	55.8

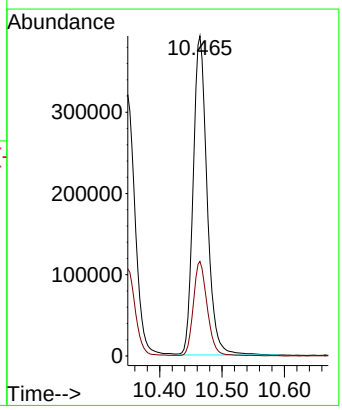


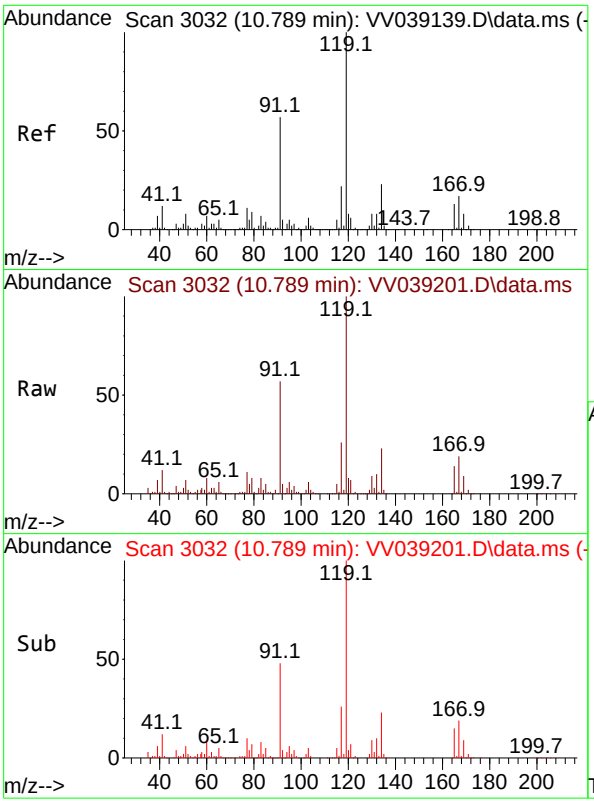


#82
4-Chlorotoluene
Concen: 20.203 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 91 Resp: 607661

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.5	43.6



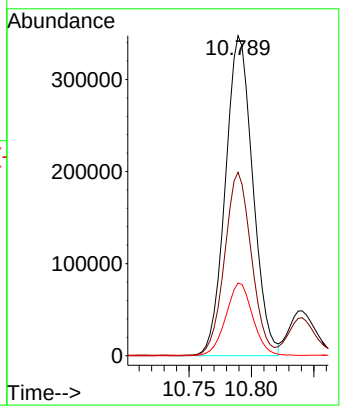


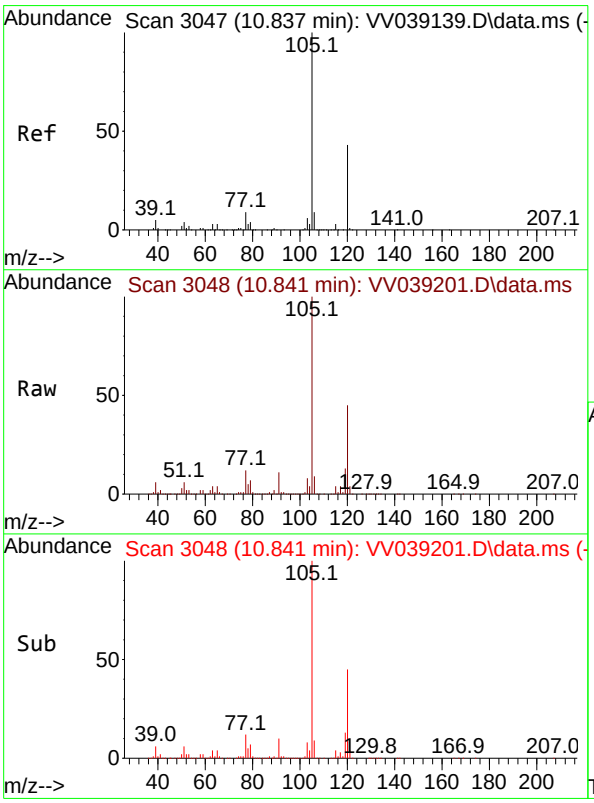
#83
tert-Butylbenzene
Concen: 18.038 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:119 Resp: 532209

Ion	Ratio	Lower	Upper
119	100		
91	55.8	28.5	85.6
134	22.4	11.5	34.4

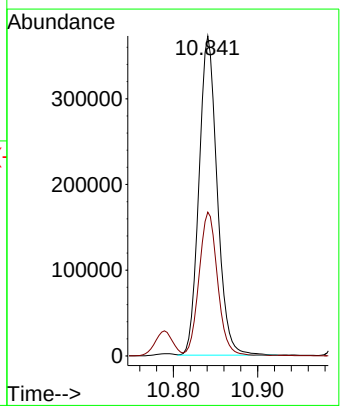


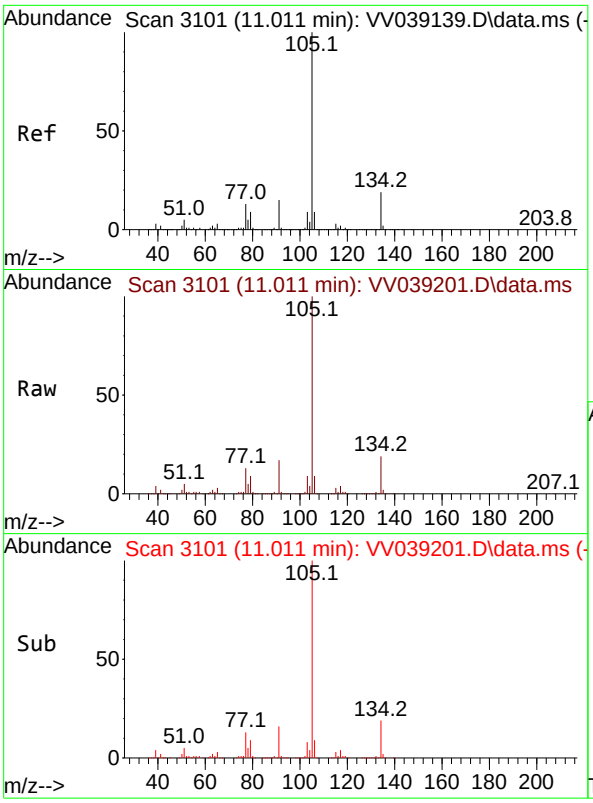


#84
1,2,4-Trimethylbenzene
Concen: 19.488 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:105 Resp: 559808

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.4	67.2



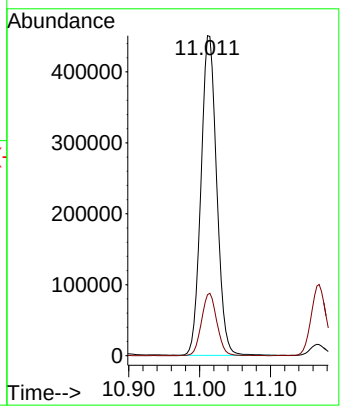


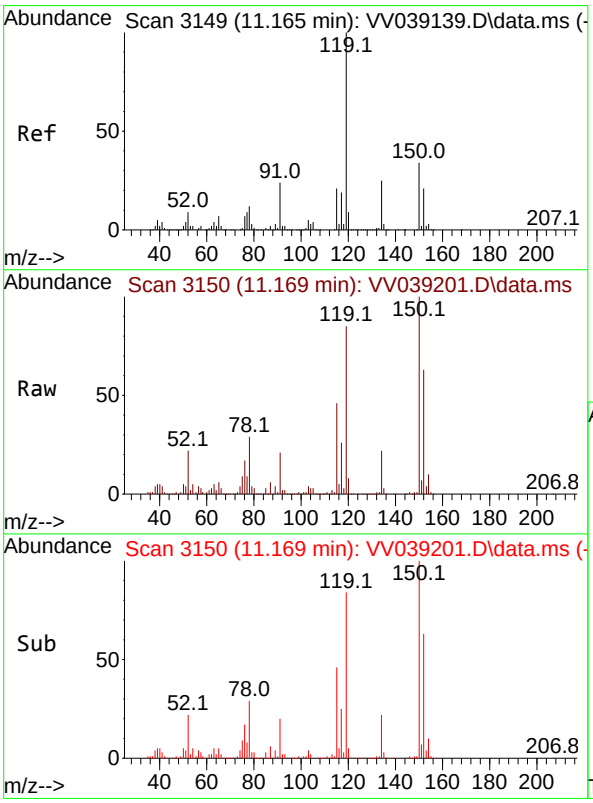
#85
sec-Butylbenzene
Concen: 17.674 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:105 Resp: 691659

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.6	28.8

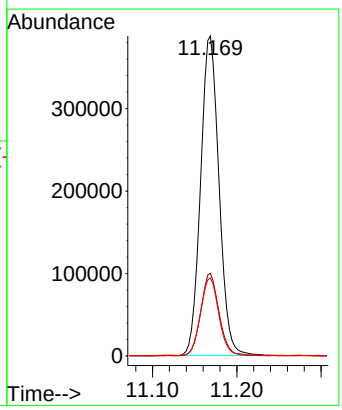


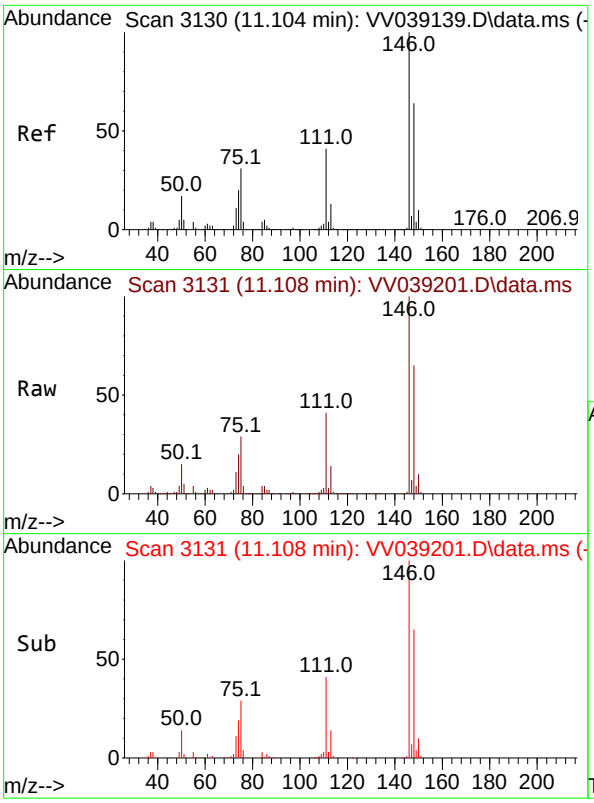


#86
p-Isopropyltoluene
Concen: 18.107 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:119 Resp: 589760

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.7	38.0
91	24.2	12.0	36.1



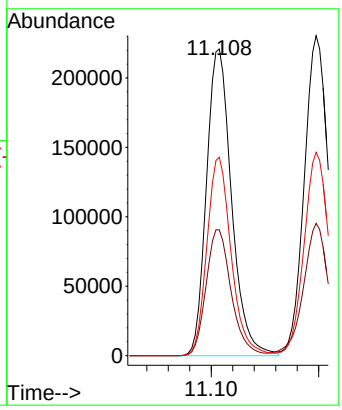


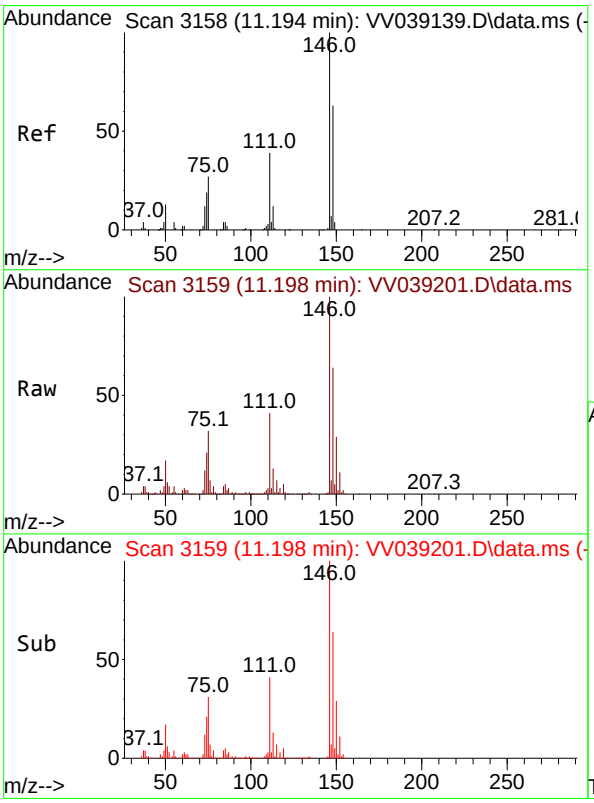
#87
1,3-Dichlorobenzene
Concen: 19.156 ug/l
RT: 11.108 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:146 Resp: 358060

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.9	62.8
148	62.8	31.8	95.3

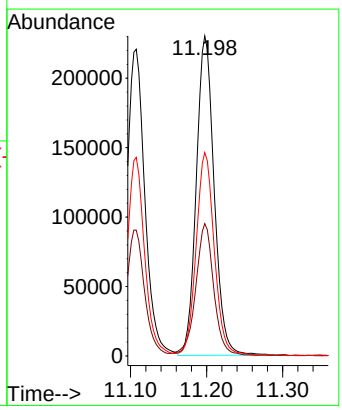


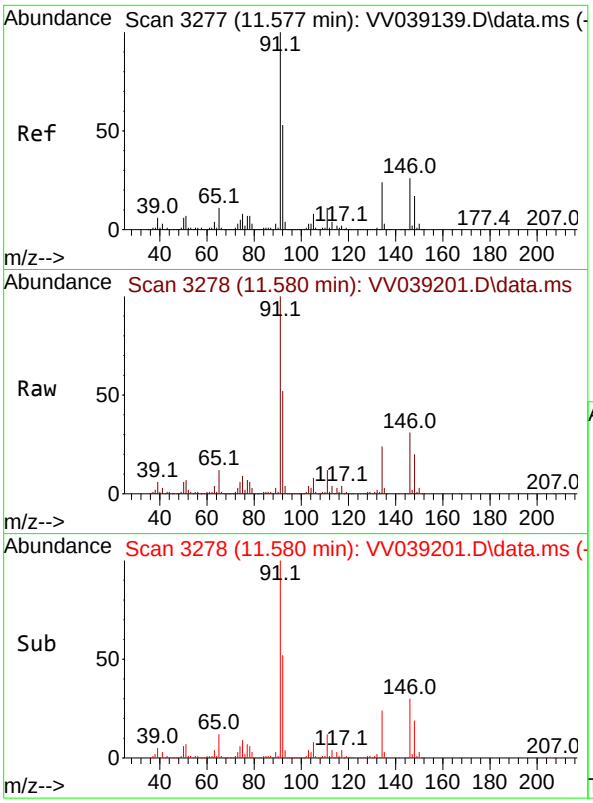


#88
1,4-Dichlorobenzene
Concen: 18.305 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:146 Resp: 375372

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.3	60.8
148	64.3	31.4	94.2



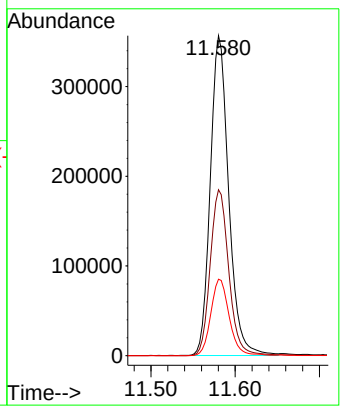


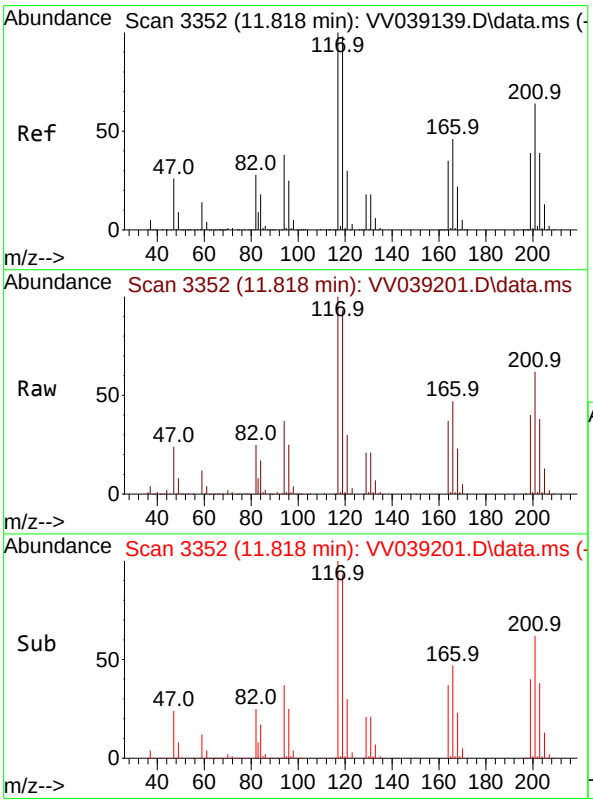
#89
n-Butylbenzene
Concen: 17.357 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion: 91 Resp: 539925

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.6	79.8
134	24.0	12.1	36.3

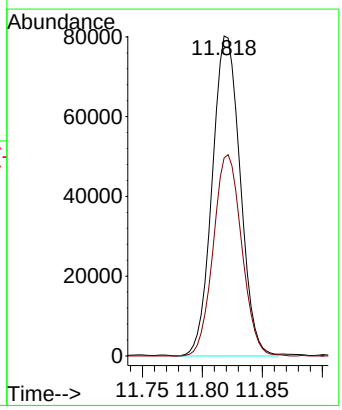


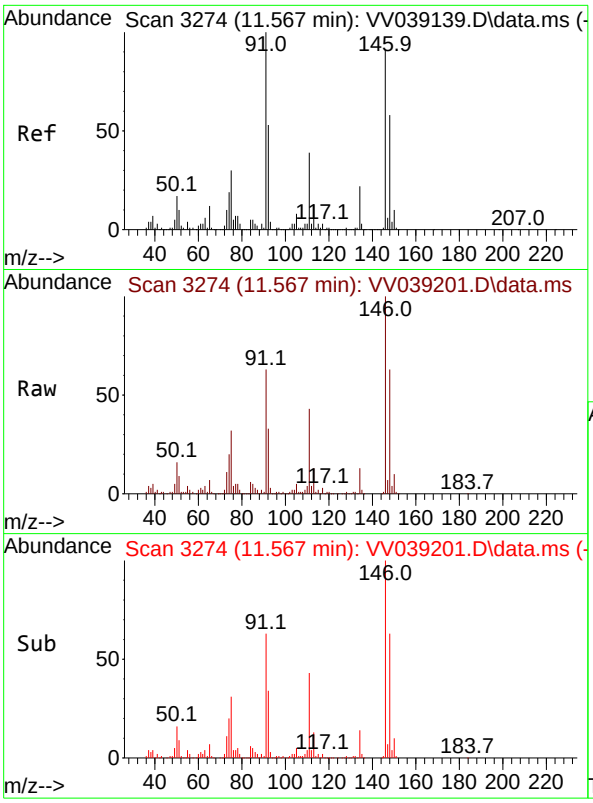


#90
Hexachloroethane
Concen: 16.198 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:117 Resp: 129925

Ion	Ratio	Lower	Upper
117	100		
201	63.9	32.3	96.8



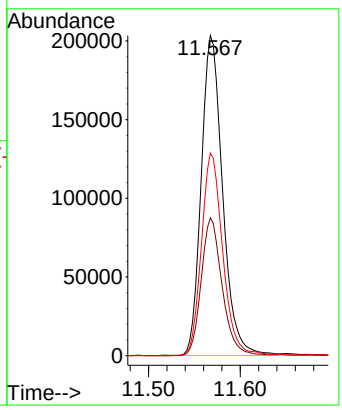


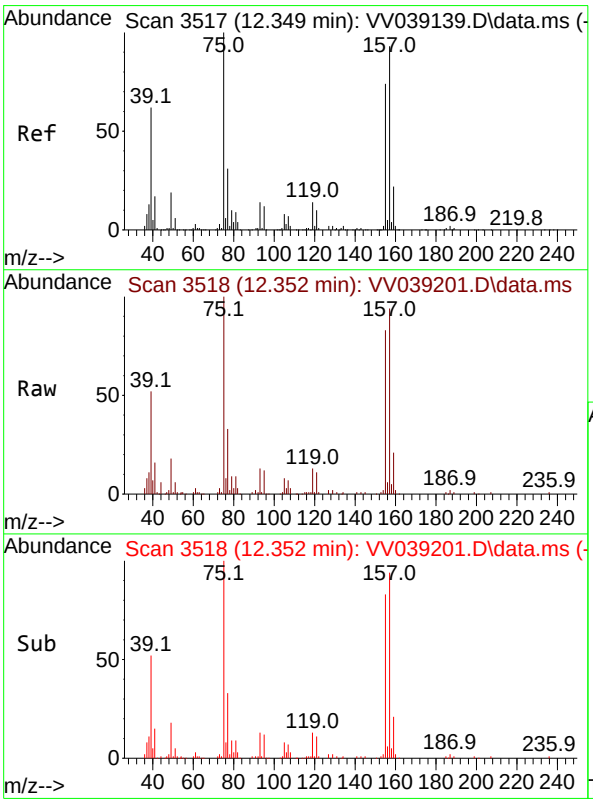
#91
1,2-Dichlorobenzene
Concen: 18.868 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:146 Resp: 329507

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.5	64.5
148	63.6	31.9	95.7

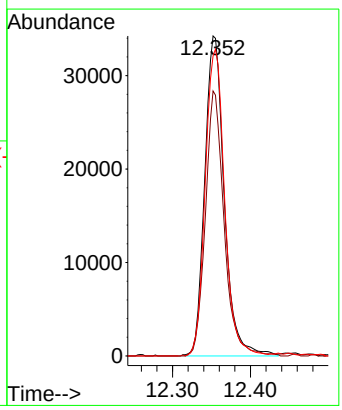


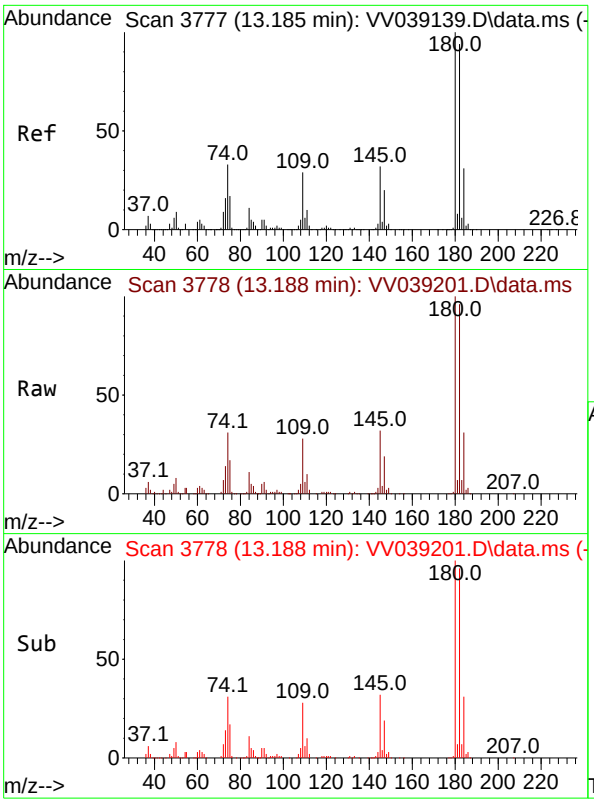


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.458 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 59548

Ion	Ratio	Lower	Upper
75	100		
155	79.7	38.6	115.8
157	95.4	49.5	148.3



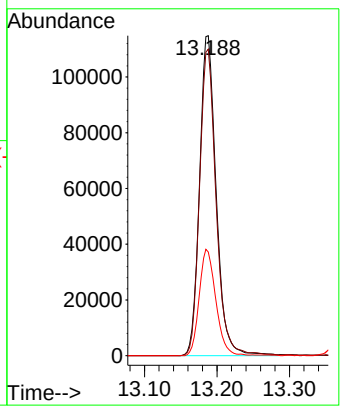


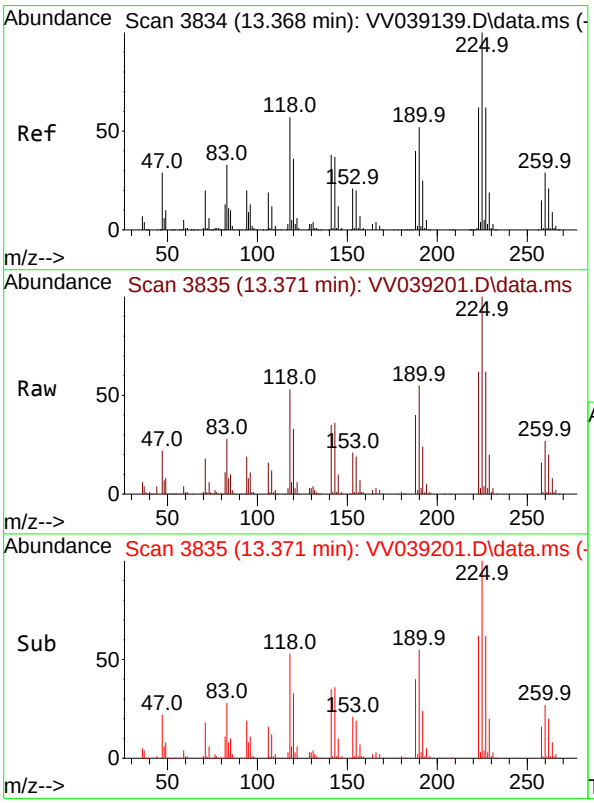
#93
1,2,4-Trichlorobenzene
Concen: 18.284 ug/l
RT: 13.188 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:180 Resp: 183040

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.1	141.4
145	33.2	16.3	48.8

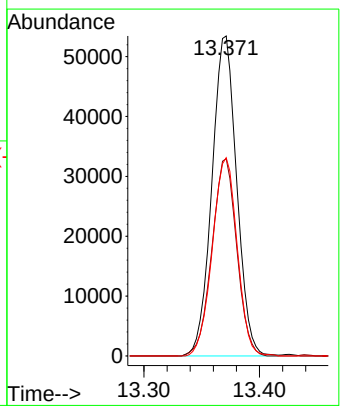


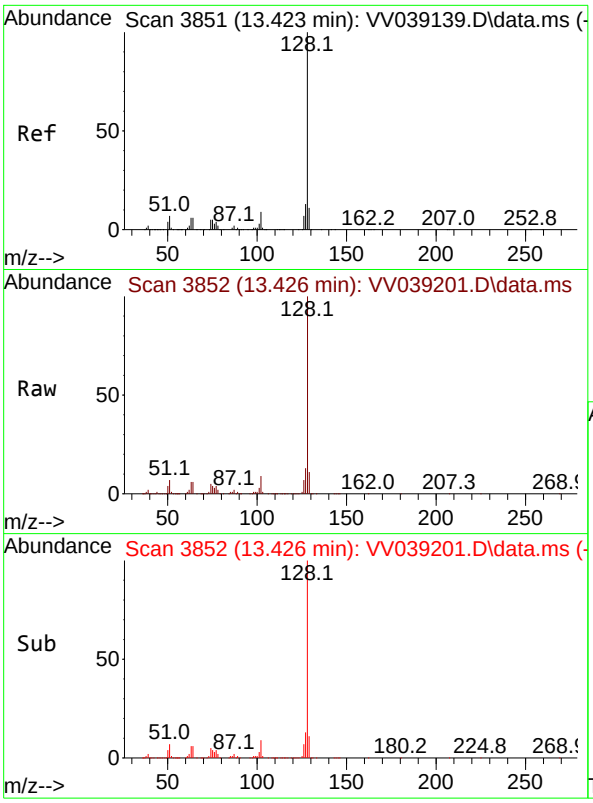


#94
Hexachlorobutadiene
Concen: 15.334 ug/l
RT: 13.371 min Scan# 3835
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:225 Resp: 79764

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.6	94.7
227	62.1	31.8	95.4



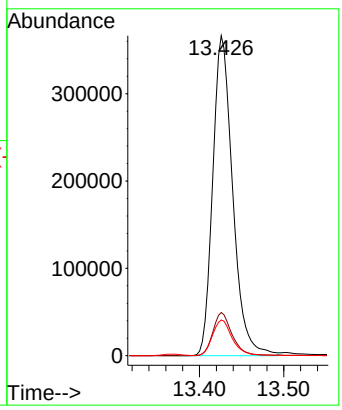


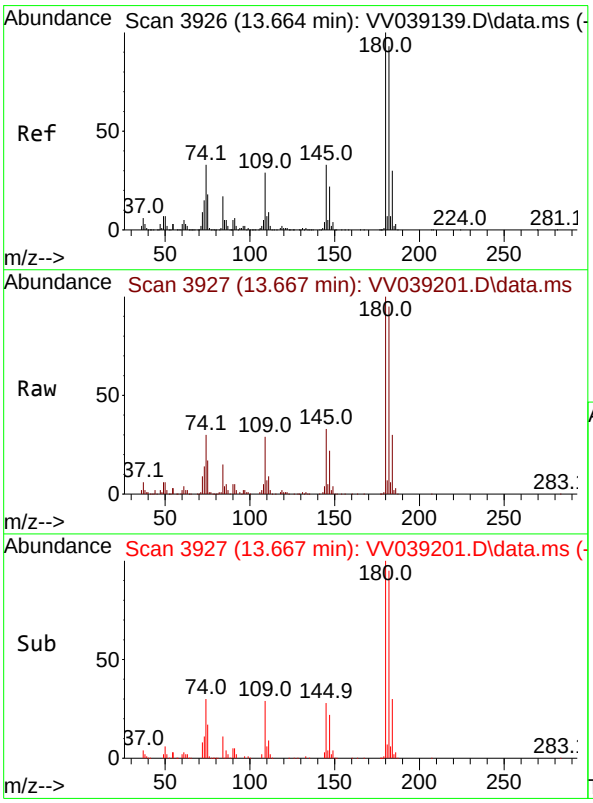
#95
Naphthalene
Concen: 18.623 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Instrument :
MSVOA_V
ClientSampleId :
VV0926WBS01

Tgt Ion:128 Resp: 602556

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.6	13.0

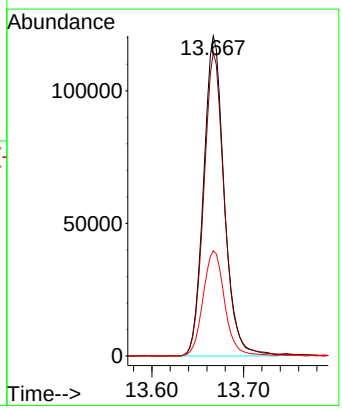




#96
1,2,3-Trichlorobenzene
Concen: 18.424 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:180 Resp: 188633

Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.9	140.8
145	34.5	17.0	51.0



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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0929WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0929WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039224.D	1	09/29/25 12:23	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		0.22	1.00	ug/L
74-87-3	Chloromethane	18.5		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.5		0.26	1.00	ug/L
74-83-9	Bromomethane	19.4		1.40	5.00	ug/L
75-00-3	Chloroethane	19.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.9		0.23	1.00	ug/L
67-64-1	Acetone	84.9		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	17.5		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.6		0.16	1.00	ug/L
79-20-9	Methyl Acetate	23.1		0.27	1.00	ug/L
75-09-2	Methylene Chloride	20.5		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.8		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.1		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.8		1.50	5.00	ug/L
78-93-3	2-Butanone	98.5		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.22	1.00	ug/L
67-66-3	Chloroform	19.3		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.16	1.00	ug/L
71-43-2	Benzene	20.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	22.1		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.4		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.68	5.00	ug/L
108-88-3	Toluene	22.1		0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0929WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0929WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039224.D	1	09/29/25 12:23	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.6		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	22.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	22.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	44.5		0.24	2.00	ug/L
95-47-6	o-Xylene	21.5		0.12	1.00	ug/L
100-42-5	Styrene	20.4		0.15	1.00	ug/L
75-25-2	Bromoform	23.6		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.4		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.9		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.6		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	22.3		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	47.1		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		77 - 121	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	516000	4.6			
540-36-3	1,4-Difluorobenzene	793000	5.535			
3114-55-4	Chlorobenzene-d5	779000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	484000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	
Project:	REAC Commodore	Date Received:	
Client Sample ID:	VV0929WBS01	SDG No.:	Q3195
Lab Sample ID:	VV0929WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039224.D	1	09/29/25 12:23	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	516454	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	792956	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	778611	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	484149	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	319747	42.778	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 85.560%			
35) Dibromofluoromethane	4.500	113	320211	50.231	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 100.460%			
50) Toluene-d8	7.236	98	881306	47.072	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 94.140%			
62) 4-Bromofluorobenzene	10.001	95	406193	52.700	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 105.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	150870	18.454	ug/l	99
3) Chloromethane	1.230	50	161989	18.457	ug/l	100
4) Vinyl Chloride	1.298	62	173604	18.477	ug/l	98
5) Bromomethane	1.497	94	114704	19.365	ug/l	96
6) Chloroethane	1.561	64	113620	19.254	ug/l	96
7) Trichlorofluoromethane	1.725	101	270079	19.854	ug/l	99
8) Diethyl Ether	1.921	74	99694	19.741	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.082	101	159720	19.733	ug/l	96
10) Methyl Iodide	2.198	142	148763	19.300	ug/l	99
11) Tert butyl alcohol	2.574	59	186819	118.256	ug/l	99
12) 1,1-Dichloroethene	2.082	96	155340	19.949	ug/l	91
13) Acrolein	2.011	56	32072	116.997	ug/l	97
14) Allyl chloride	2.359	41	256953	18.473	ug/l	98
15) Acrylonitrile	2.677	53	515622	101.816	ug/l	99
16) Acetone	2.121	43	422540	84.862	ug/l	99
17) Carbon Disulfide	2.252	76	417256	17.521	ug/l	99
18) Methyl Acetate	2.384	43	255620	23.081	ug/l	96
19) Methyl tert-butyl Ether	2.715	73	511335	20.608	ug/l	98
20) Methylene Chloride	2.458	84	178236	20.544	ug/l	93
21) trans-1,2-Dichloroethene	2.703	96	163972	19.780	ug/l	96
22) Diisopropyl ether	3.220	45	505903	19.010	ug/l	97
23) Vinyl Acetate	3.191	43	2180218	93.651	ug/l	98
24) 1,1-Dichloroethane	3.117	63	310829	19.099	ug/l	98
25) 2-Butanone	3.873	43	589737	98.528	ug/l	97
26) 2,2-Dichloropropane	3.812	77	239643	16.607	ug/l	100
27) cis-1,2-Dichloroethene	3.822	96	178123	19.483	ug/l	97
28) Bromochloromethane	4.150	49	147124	20.478	ug/l	90
29) Tetrahydrofuran	4.246	42	387946	103.551	ug/l	97
30) Chloroform	4.281	83	328585	19.335	ug/l	99
31) Cyclohexane	4.584	56	223750	16.783	ug/l	95
32) 1,1,1-Trichloroethane	4.513	97	282636	19.211	ug/l	97
36) 1,1-Dichloropropene	4.744	75	194860	20.218	ug/l	97
37) Ethyl Acetate	3.986	43	236815	20.249	ug/l	98
38) Carbon Tetrachloride	4.738	117	243896	20.706	ug/l	97
39) Methylcyclohexane	6.047	83	205429	17.650	ug/l	93
40) Benzene	5.011	78	647129	20.619	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.169	41	96963	19.547	ug/l		94
42) 1,2-Dichloroethane	5.043	62	225943	20.546	ug/l		99
43) Isopropyl Acetate	5.201	43	331062	20.762	ug/l		99
44) Trichloroethene	5.834	130	160027	22.097	ug/l		96
45) 1,2-Dichloropropane	6.092	63	159034	20.387	ug/l		93
46) Dibromomethane	6.230	93	128007	21.439	ug/l		93
47) Bromodichloromethane	6.429	83	256635	20.791	ug/l		97
48) Methyl methacrylate	6.304	41	143594	19.866	ug/l		96
49) 1,4-Dioxane	6.297	88	52495	450.027	ug/l		97
51) 4-Methyl-2-Pentanone	7.149	43	1213345	115.662	ug/l		99
52) Toluene	7.310	92	402833	22.137	ug/l		99
53) t-1,3-Dichloropropene	7.577	75	229437	21.329	ug/l		98
54) cis-1,3-Dichloropropene	6.950	75	256128	21.568	ug/l		97
55) 1,1,2-Trichloroethane	7.764	97	180352	22.104	ug/l		98
56) Ethyl methacrylate	7.718	69	206033	21.263	ug/l		95
57) 1,3-Dichloropropane	7.937	76	274579	21.324	ug/l		99
58) 2-Chloroethyl Vinyl ether	6.815	63	458913	90.272	ug/l		97
59) 2-Hexanone	8.066	43	888978	106.332	ug/l		99
60) Dibromochloromethane	8.169	129	204739	22.022	ug/l		99
61) 1,2-Dibromoethane	8.275	107	184314	22.089	ug/l		97
64) Tetrachloroethene	7.899	164	143400	21.989	ug/l		97
65) Chlorobenzene	8.805	112	447060	20.614	ug/l		96
66) 1,1,1,2-Tetrachloroethane	8.899	131	171881	21.934	ug/l		99
67) Ethyl Benzene	8.937	91	679904	20.710	ug/l		99
68) m/p-Xylenes	9.066	106	563248	44.453	ug/l		100
69) o-Xylene	9.471	106	240935	21.475	ug/l		99
70) Styrene	9.487	104	463036	20.357	ug/l		99
71) Bromoform	9.654	173	144577	23.619	ug/l	#	100
73) Isopropylbenzene	9.857	105	681756	19.415	ug/l		99
74) N-amyl acetate	9.725	43	277055	19.780	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.165	83	290305	18.868	ug/l		100
76) 1,2,3-Trichloropropane	10.198	75	219845	19.944	ug/l		96
77) Bromobenzene	10.143	156	189322	20.780	ug/l		94
78) n-propylbenzene	10.278	91	836516	19.562	ug/l		99
79) 2-Chlorotoluene	10.349	91	522912	20.436	ug/l		99
80) 1,3,5-Trimethylbenzene	10.464	105	595449	20.401	ug/l		99
81) trans-1,4-Dichloro-2-b...	9.931	75	90895	19.795	ug/l		98
82) 4-Chlorotoluene	10.464	91	609979	20.558	ug/l		98
83) tert-Butylbenzene	10.789	119	546815	18.788	ug/l		98
84) 1,2,4-Trimethylbenzene	10.841	105	579472	20.450	ug/l		98
85) sec-Butylbenzene	11.014	105	713481	18.482	ug/l		99
86) p-Isopropyltoluene	11.169	119	612533	19.064	ug/l		98
87) 1,3-Dichlorobenzene	11.107	146	373130	20.236	ug/l		99
88) 1,4-Dichlorobenzene	11.197	146	395788	19.565	ug/l		98
89) n-Butylbenzene	11.580	91	560984	18.282	ug/l		99
90) Hexachloroethane	11.821	117	135620	17.141	ug/l		94
91) 1,2-Dichlorobenzene	11.567	146	340057	19.740	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.352	75	60941	22.277	ug/l		94
93) 1,2,4-Trichlorobenzene	13.188	180	197145	19.964	ug/l		98
94) Hexachlorobutadiene	13.368	225	91322	17.798	ug/l		98
95) Naphthalene	13.426	128	638517	20.005	ug/l		99
96) 1,2,3-Trichlorobenzene	13.667	180	208339	20.628	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

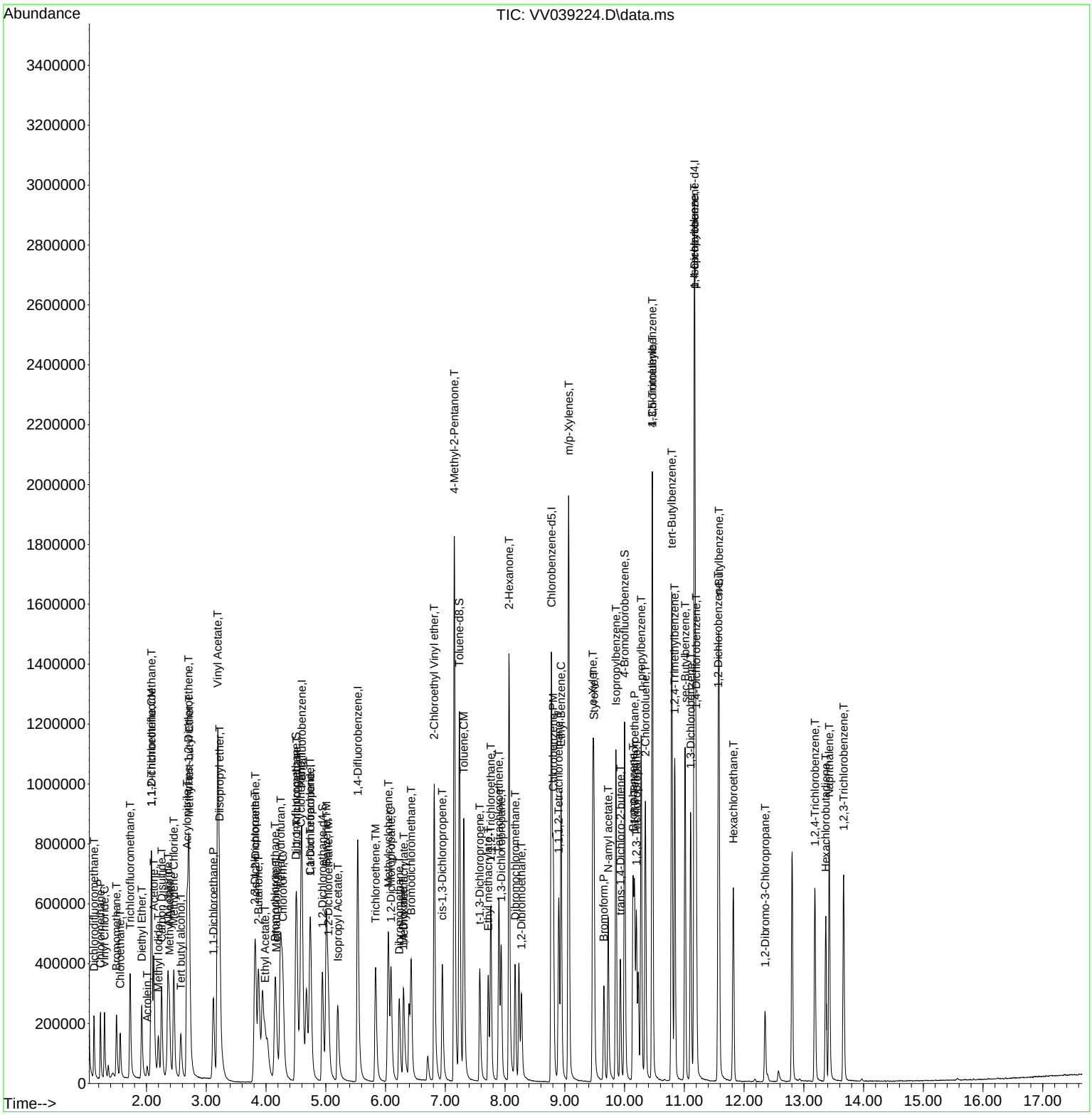
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

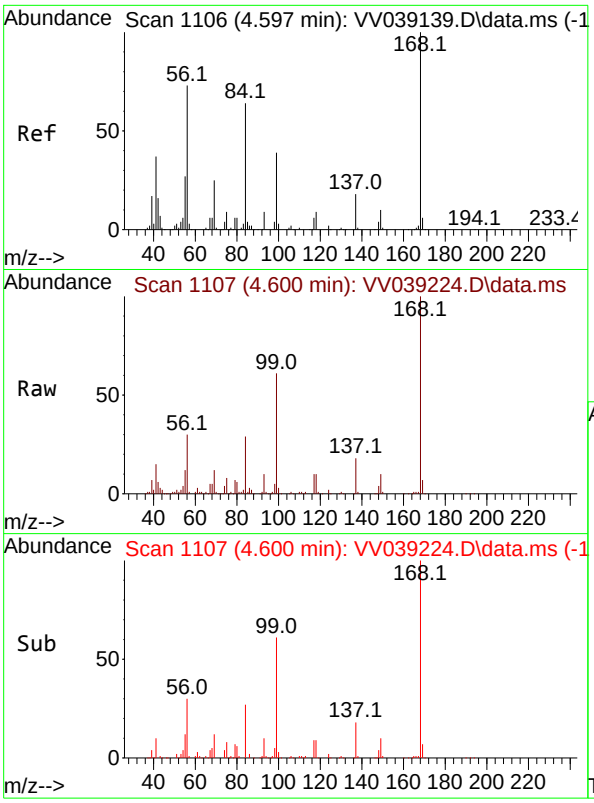
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



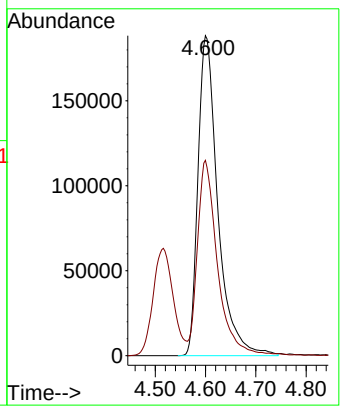


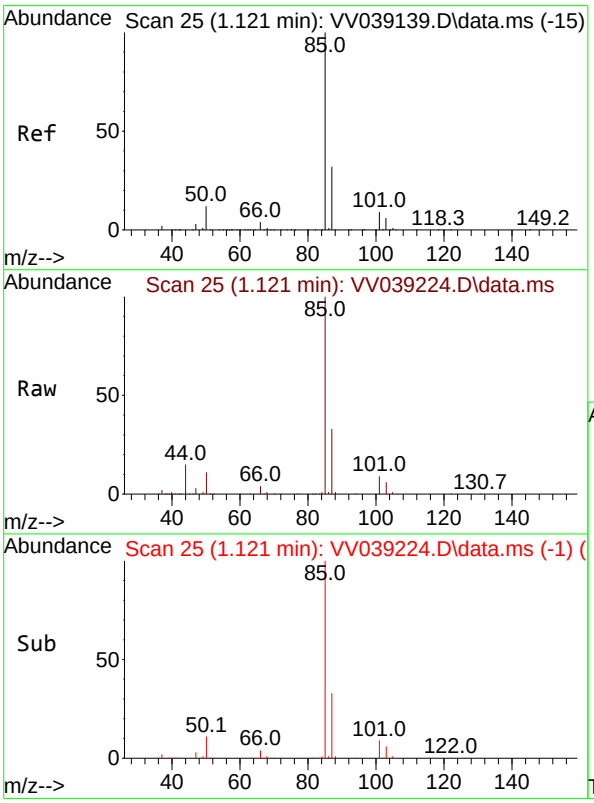
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:168 Resp: 516454

Ion	Ratio	Lower	Upper
168	100		
99	60.4	49.6	74.4

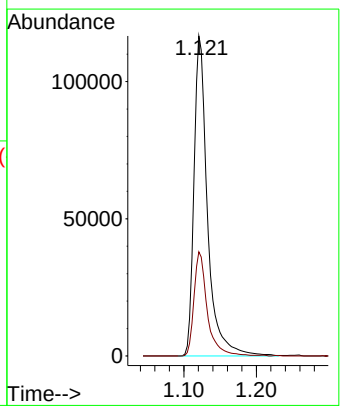


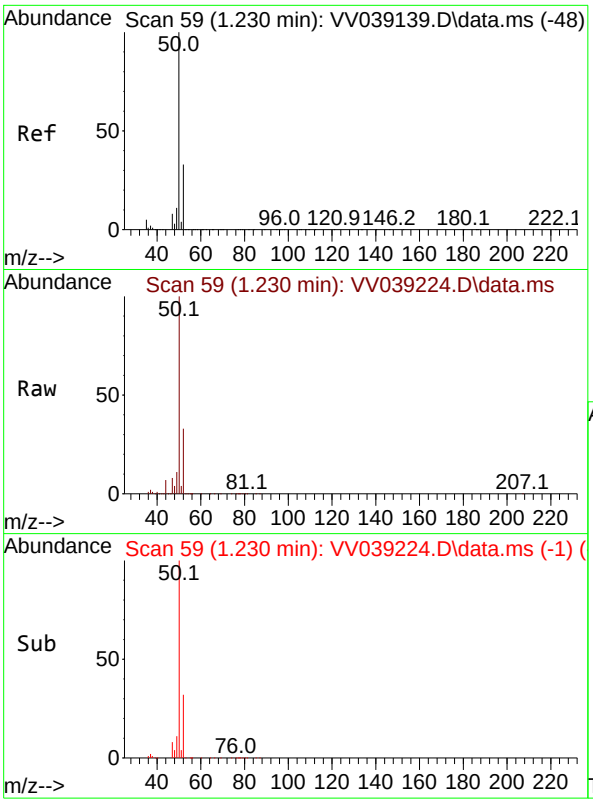


#2
Dichlorodifluoromethane
Concen: 18.454 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 85 Resp: 150870

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.0	47.9



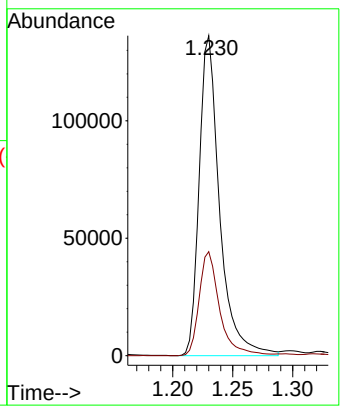


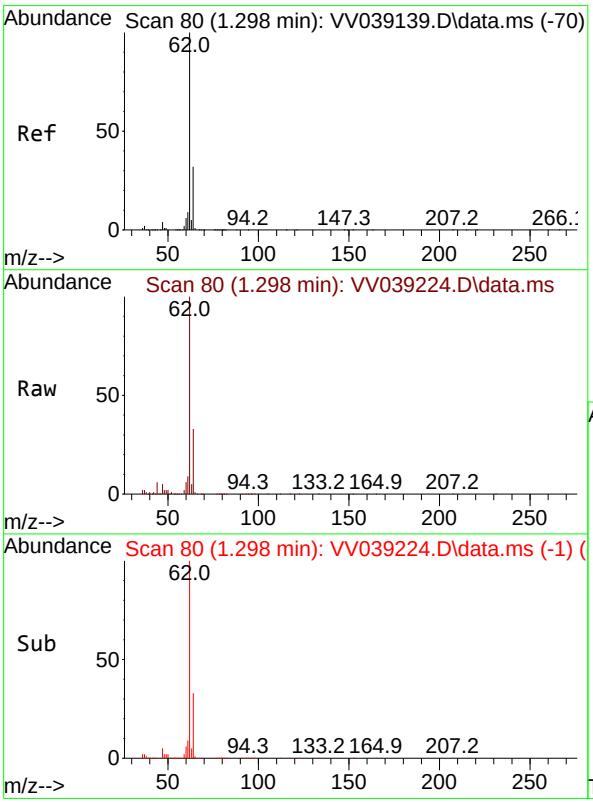
#3
Chloromethane
Concen: 18.457 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 50 Resp: 161989

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

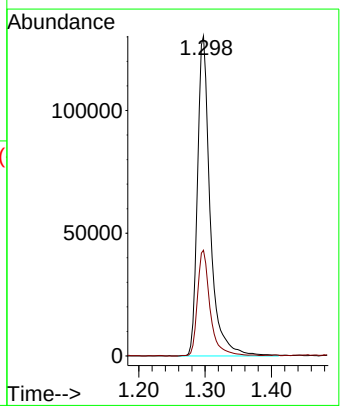


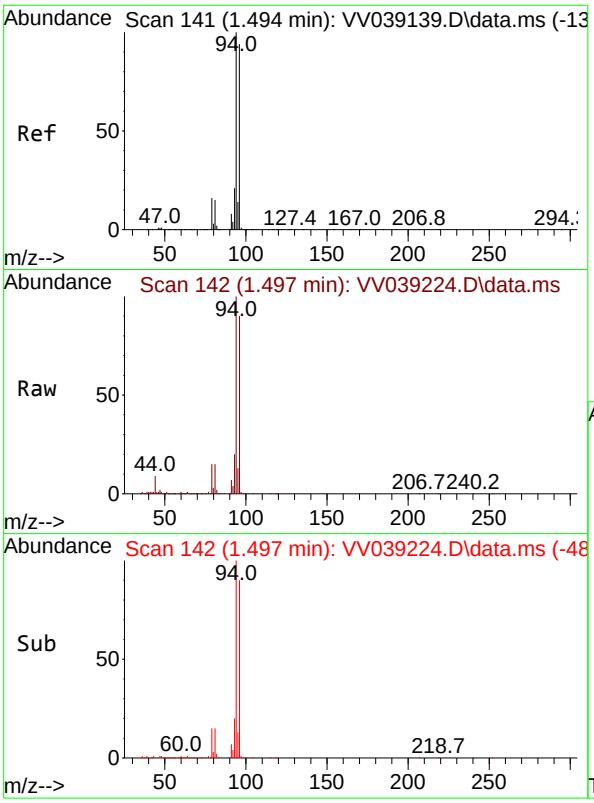


#4
Vinyl Chloride
Concen: 18.477 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 62 Resp: 173604

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.6	38.4



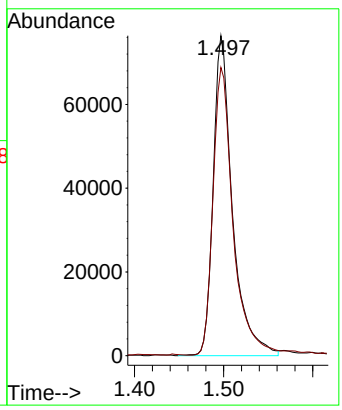


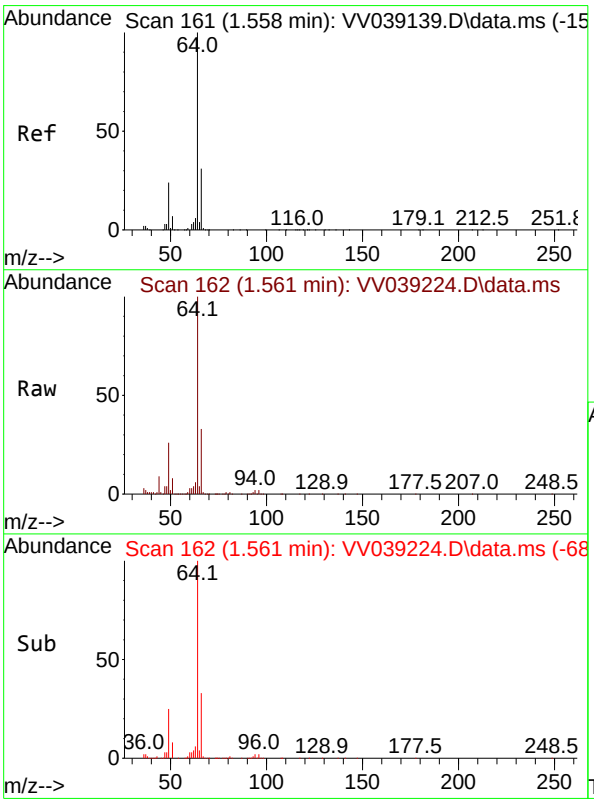
#5
Bromomethane
Concen: 19.365 ug/l
RT: 1.497 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 94 Resp: 114704

Ion	Ratio	Lower	Upper
94	100		
96	89.7	74.9	112.3

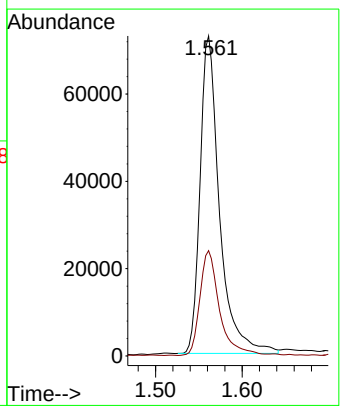


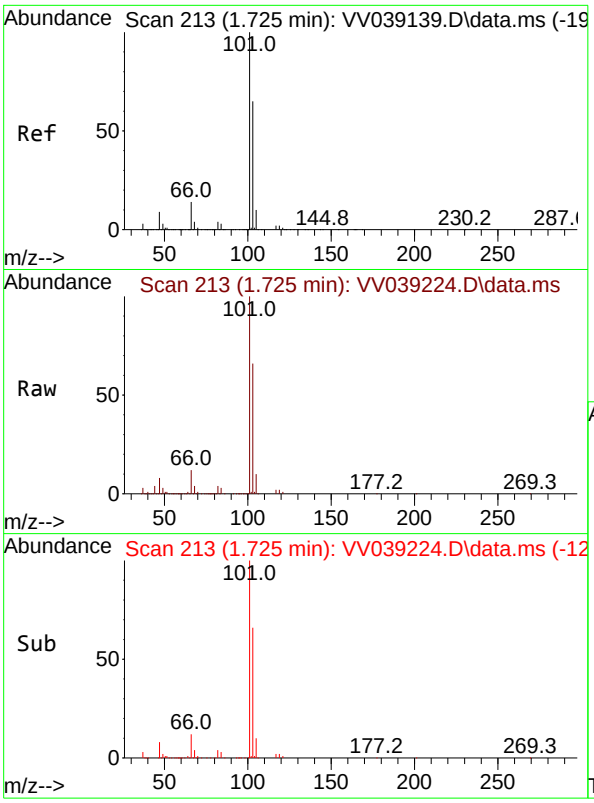


#6
Chloroethane
Concen: 19.254 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 64 Resp: 113620

Ion	Ratio	Lower	Upper
64	100		
66	33.0	24.6	36.8



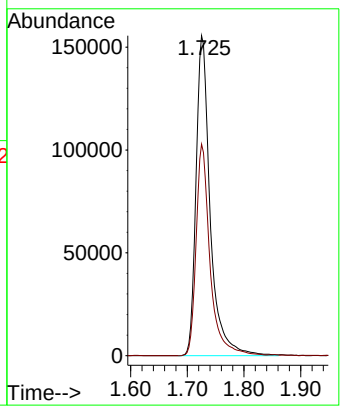


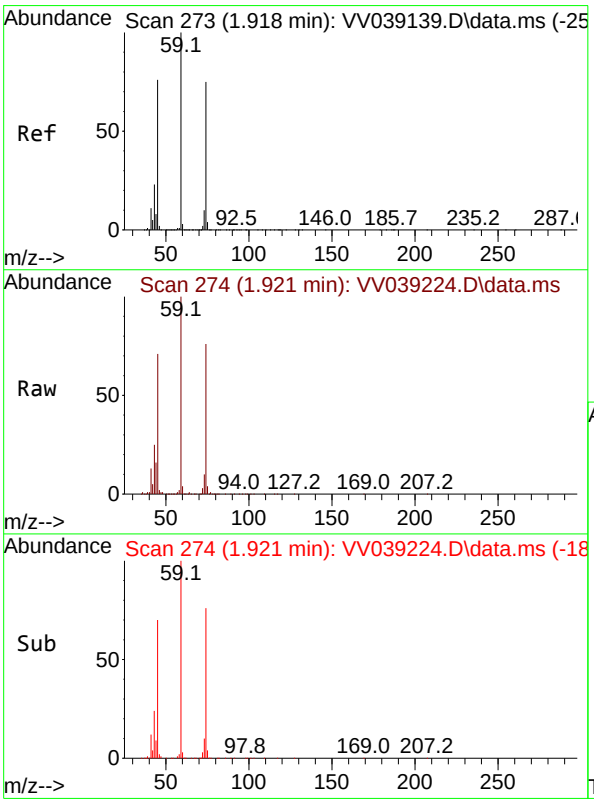
#7
Trichlorofluoromethane
Concen: 19.854 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:101 Resp: 270079

Ion	Ratio	Lower	Upper
101	100		
103	66.1	52.0	78.0

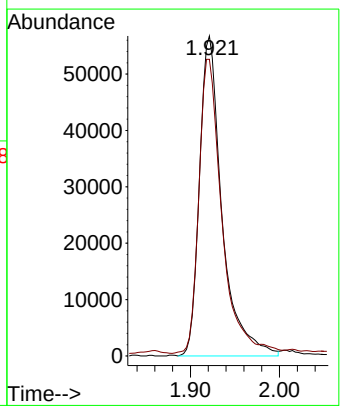


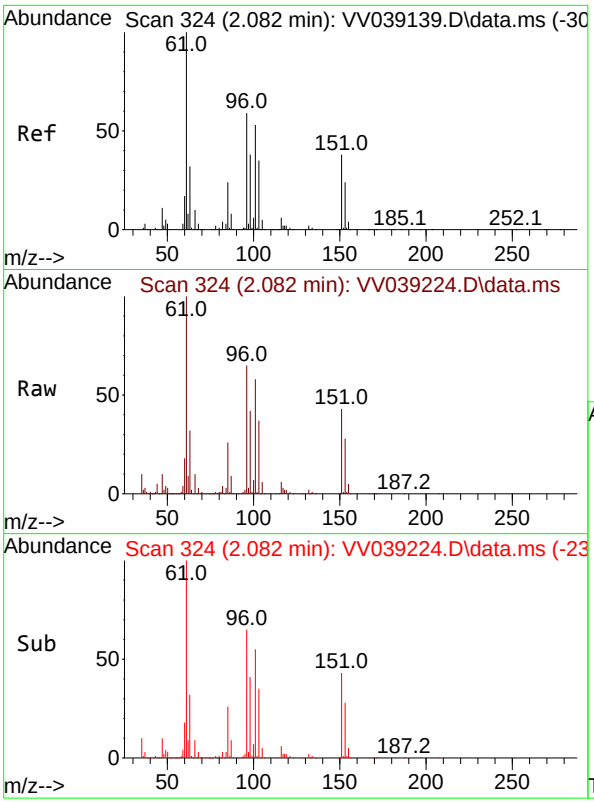


#8
Diethyl Ether
Concen: 19.741 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 74 Resp: 99694

Ion	Ratio	Lower	Upper
74	100		
45	93.4	49.6	148.8



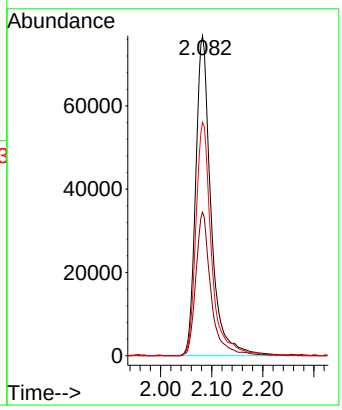


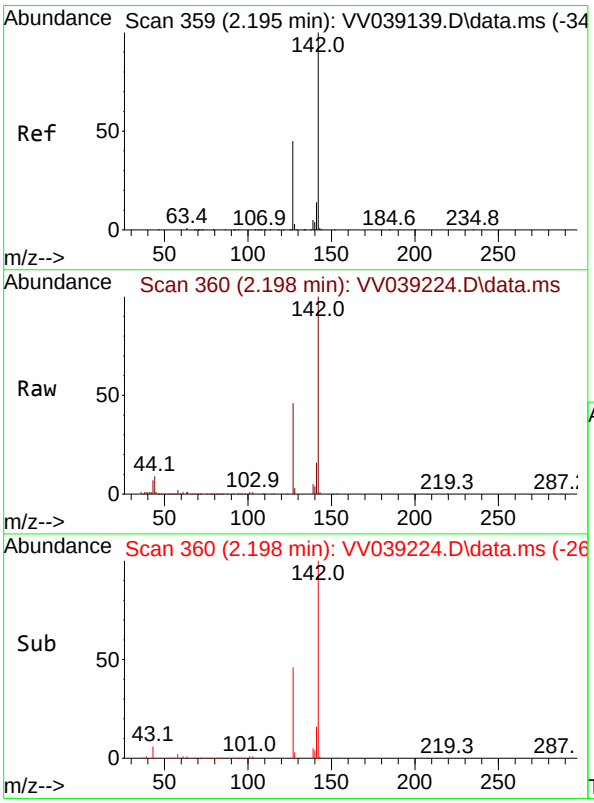
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.733 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:101 Resp: 159720

Ion	Ratio	Lower	Upper
101	100		
85	43.6	36.2	54.2
151	74.2	56.3	84.5

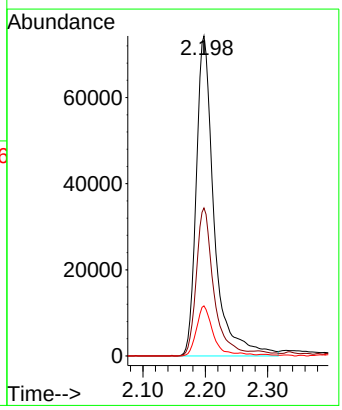


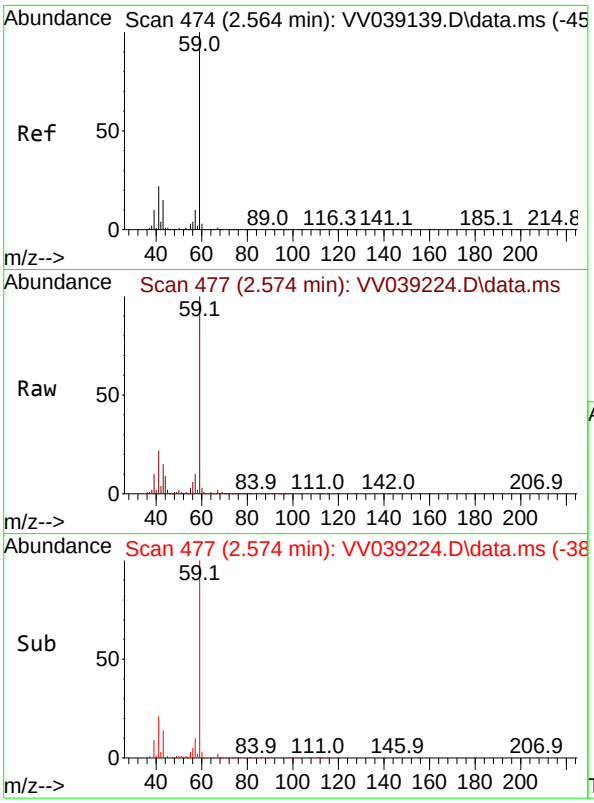


#10
Methyl Iodide
Concen: 19.300 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:142 Resp: 148763

Ion	Ratio	Lower	Upper
142	100		
127	45.0	36.3	54.5
141	14.2	11.2	16.8



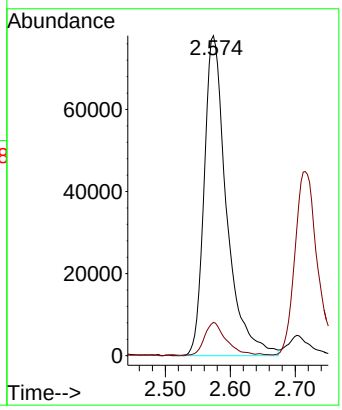


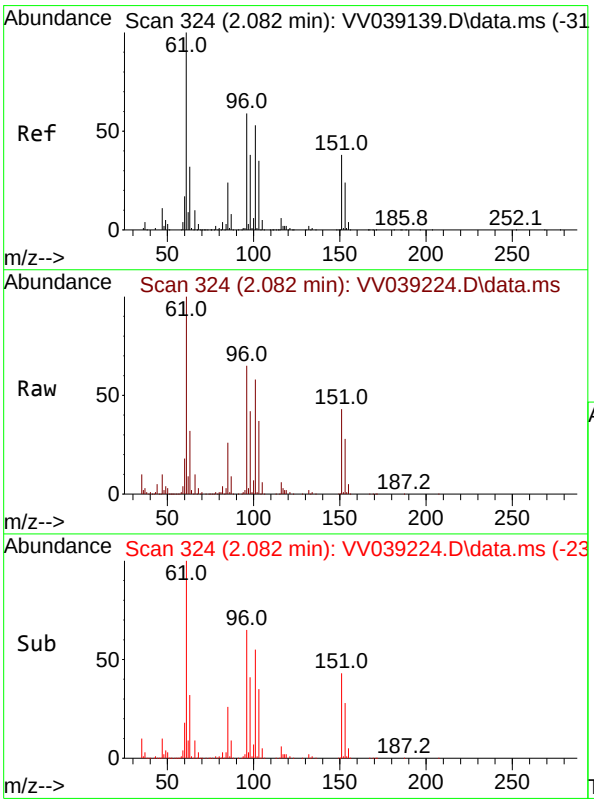
#11
Tert butyl alcohol
Concen: 118.256 ug/l
RT: 2.574 min Scan# 4
Delta R.T. 0.010 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 59 Resp: 186819

Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.8	11.8

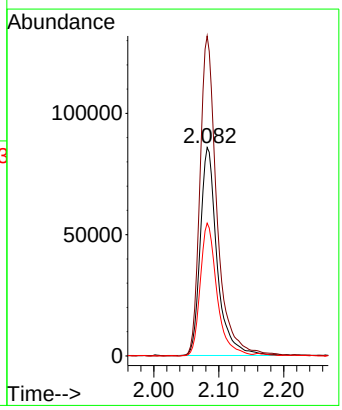


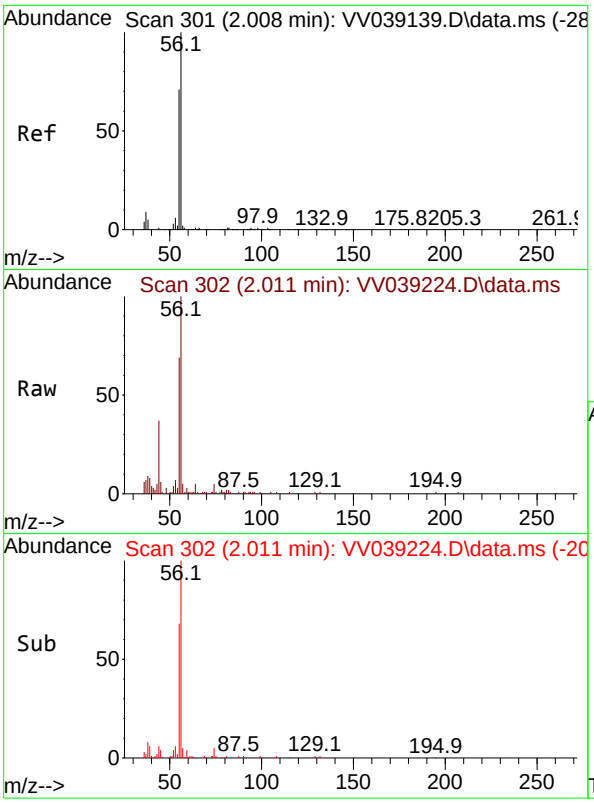


#12
1,1-Dichloroethene
Concen: 19.949 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 96 Resp: 155340

Ion	Ratio	Lower	Upper
96	100		
61	153.8	136.0	204.0
98	63.9	51.0	76.6



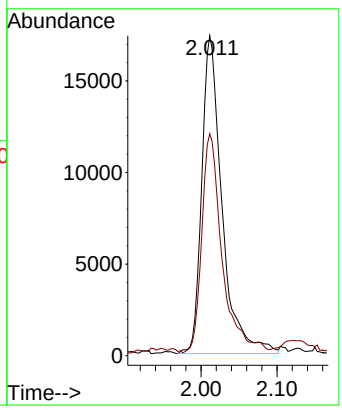


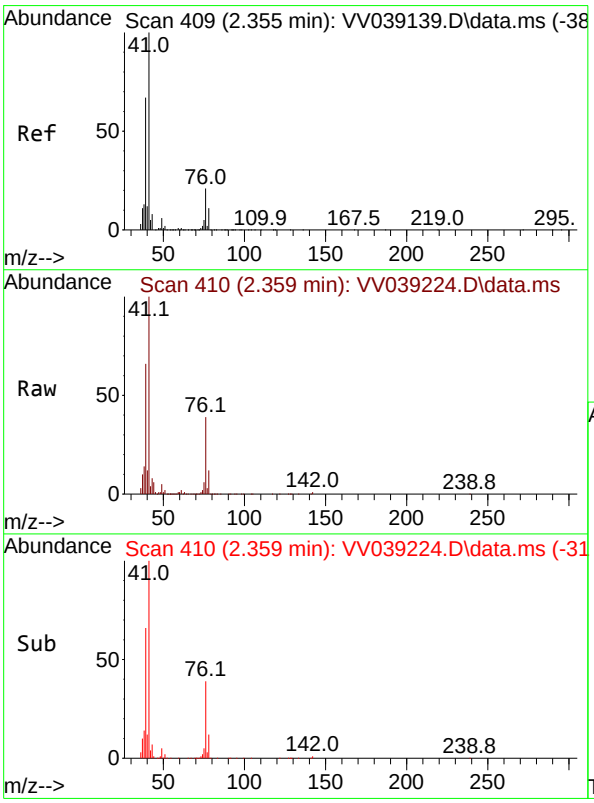
#13
Acrolein
Concen: 116.997 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 56 Resp: 32072

Ion	Ratio	Lower	Upper
56	100		
55	67.5	56.2	84.4

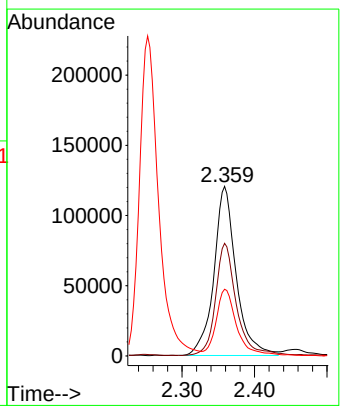


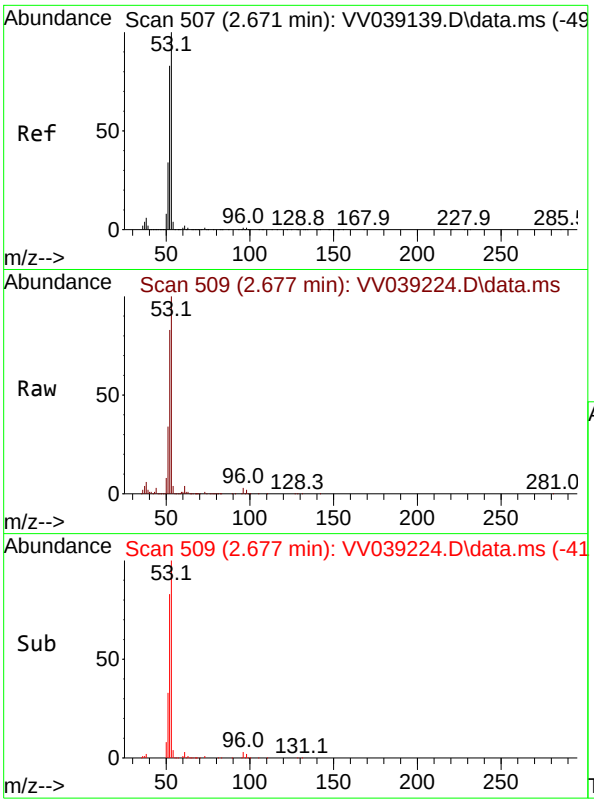


#14
Allyl chloride
Concen: 18.473 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 41 Resp: 256953

Ion	Ratio	Lower	Upper
41	100		
39	61.9	51.0	76.6
76	36.4	28.2	42.4



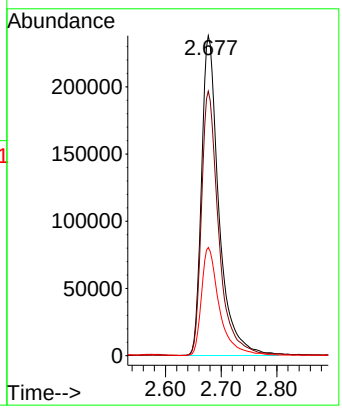


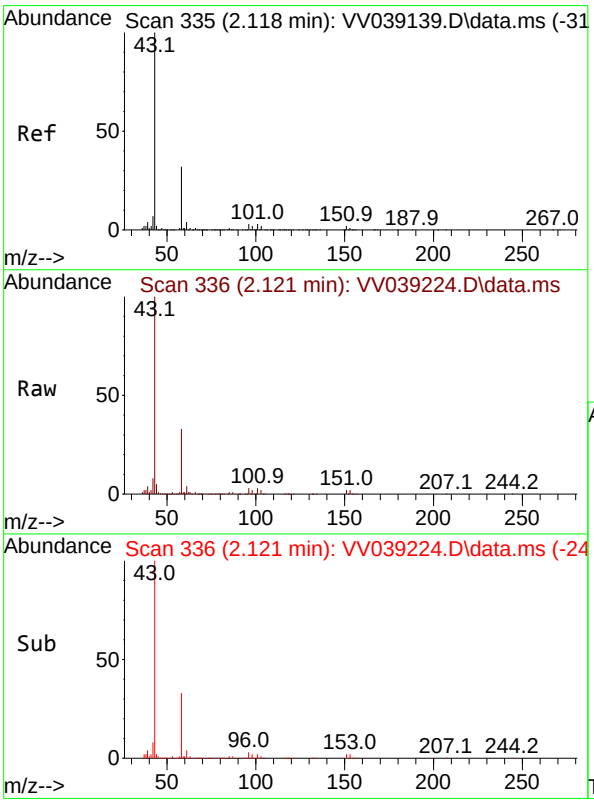
#15
Acrylonitrile
Concen: 101.816 ug/l
RT: 2.677 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 53 Resp: 515622

Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.1	99.1
51	34.9	28.5	42.7

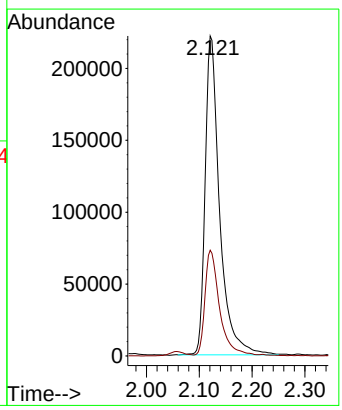


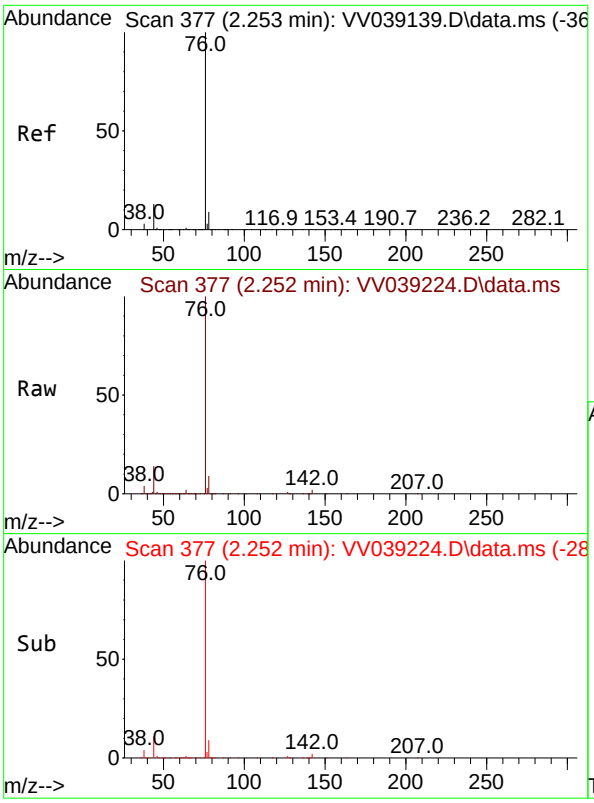


#16
Acetone
Concen: 84.862 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 43 Resp: 422540

Ion	Ratio	Lower	Upper
43	100		
58	33.0	25.8	38.6



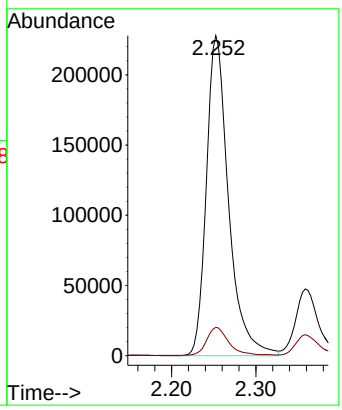


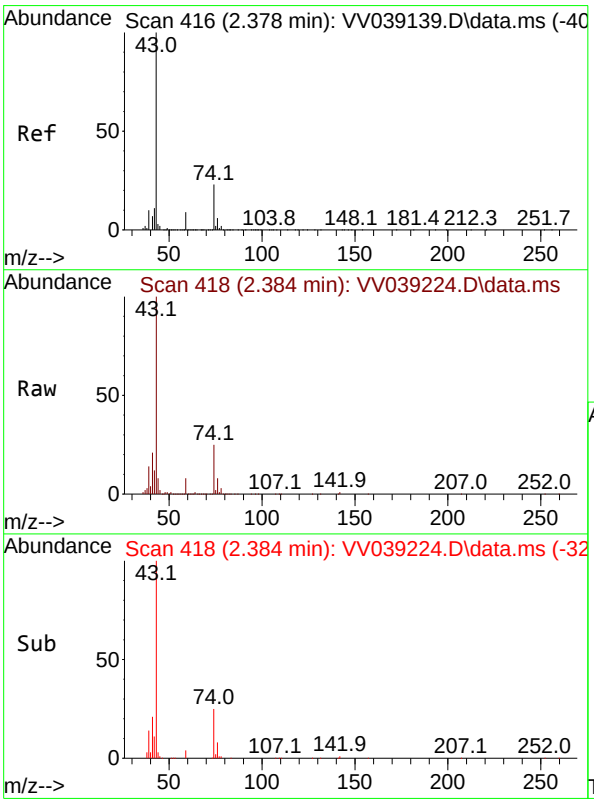
#17
Carbon Disulfide
Concen: 17.521 ug/l
RT: 2.252 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 76 Resp: 417256

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

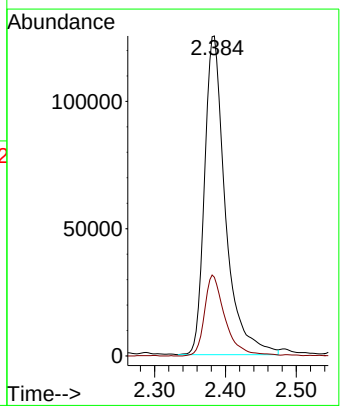


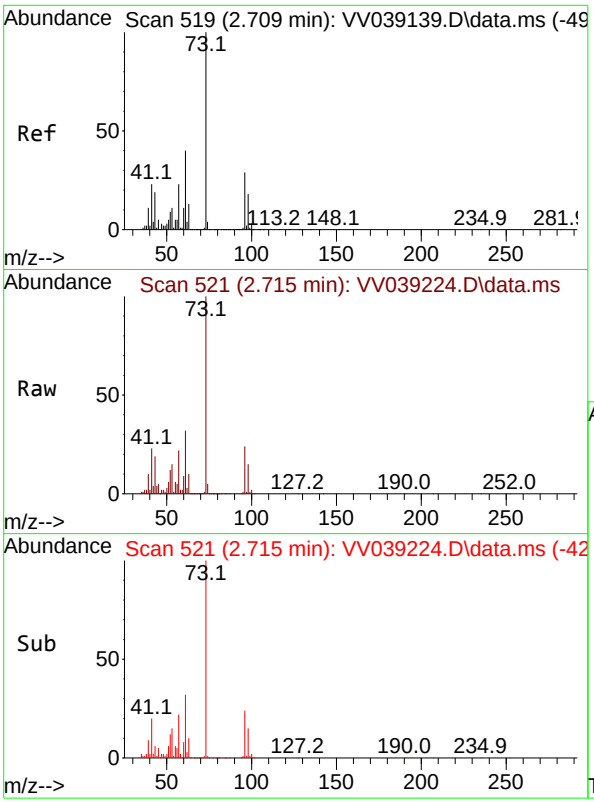


#18
Methyl Acetate
Concen: 23.081 ug/l
RT: 2.384 min Scan# 418
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 43 Resp: 255620

Ion	Ratio	Lower	Upper
43	100		
74	25.2	18.6	27.8



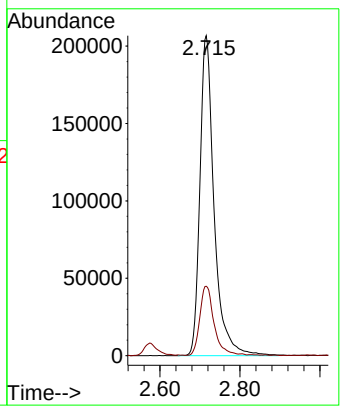


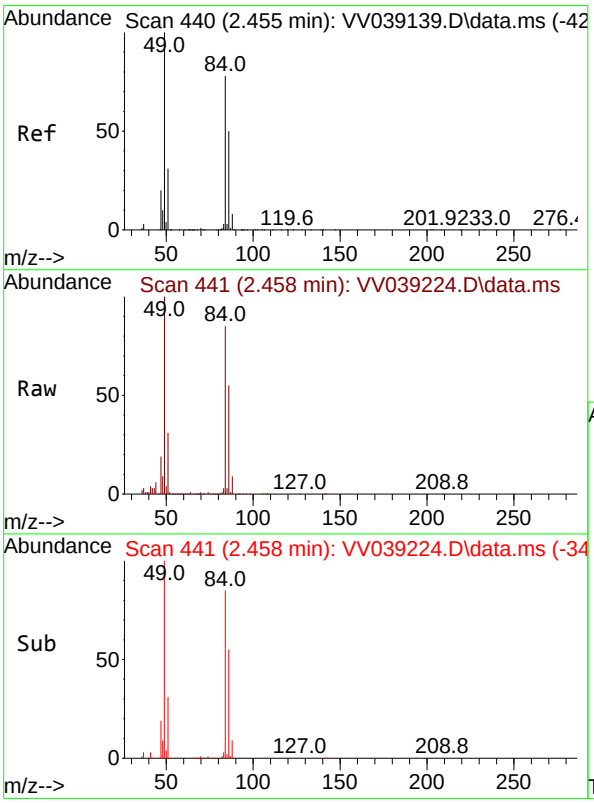
#19
Methyl tert-butyl Ether
Concen: 20.608 ug/l
RT: 2.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 73 Resp: 511335

Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.2	27.4

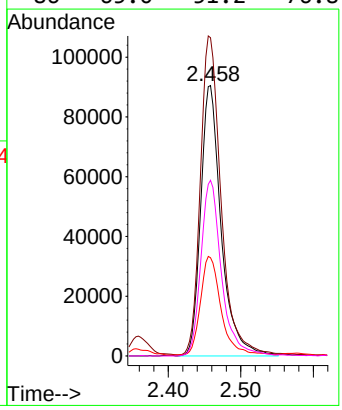


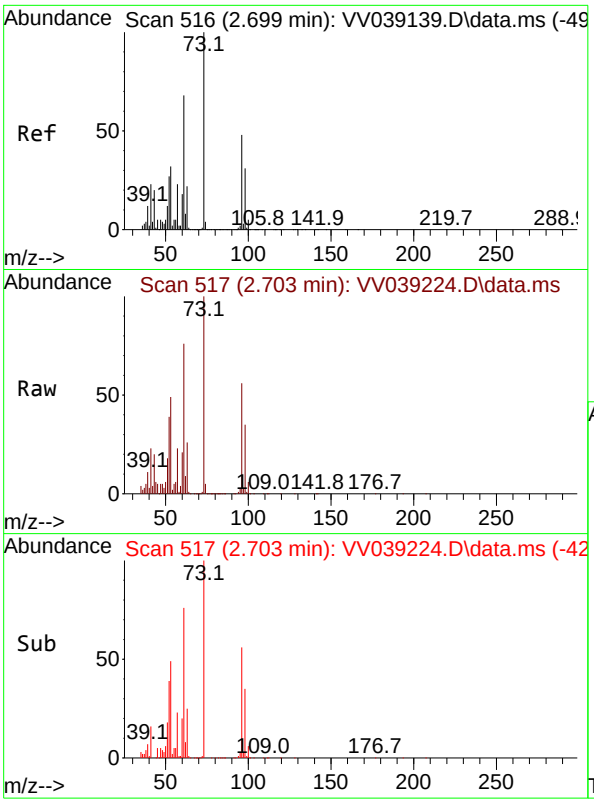


#20
Methylene Chloride
Concen: 20.544 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 84 Resp: 178236

Ion	Ratio	Lower	Upper
84	100		
49	117.3	102.8	154.2
51	35.9	31.9	47.9
86	65.0	51.2	76.8



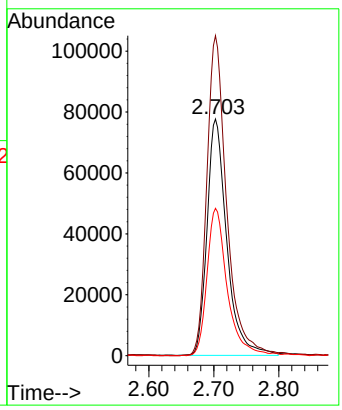


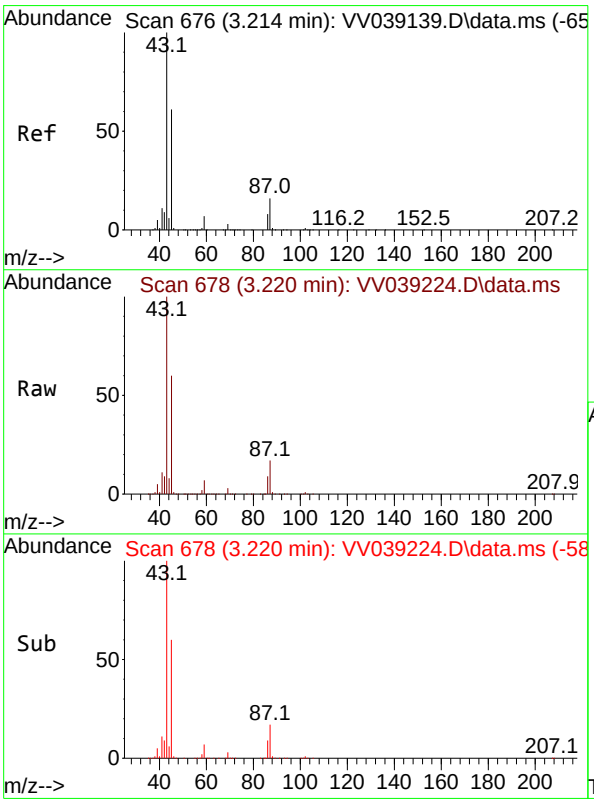
#21
trans-1,2-Dichloroethene
Concen: 19.780 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 96 Resp: 163972

Ion	Ratio	Lower	Upper
96	100		
61	135.4	112.8	169.2
98	62.4	51.1	76.7

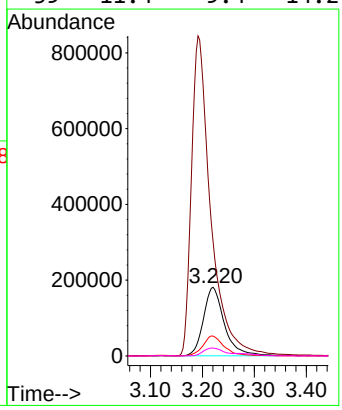


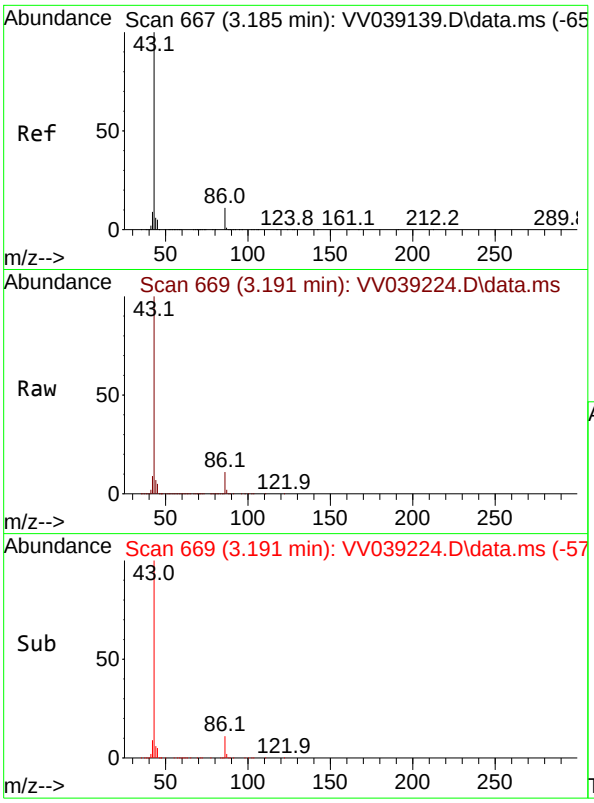


#22
Diisopropyl ether
Concen: 19.010 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 45 Resp: 505903

Ion	Ratio	Lower	Upper
45	100		
43	166.8	130.9	196.3
87	28.7	21.1	31.7
59	11.4	9.4	14.2



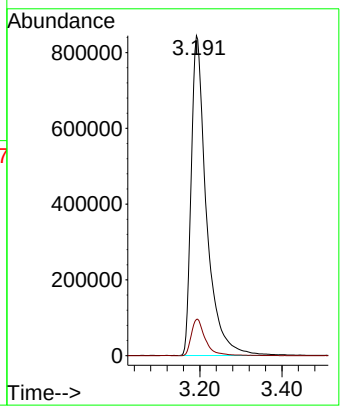


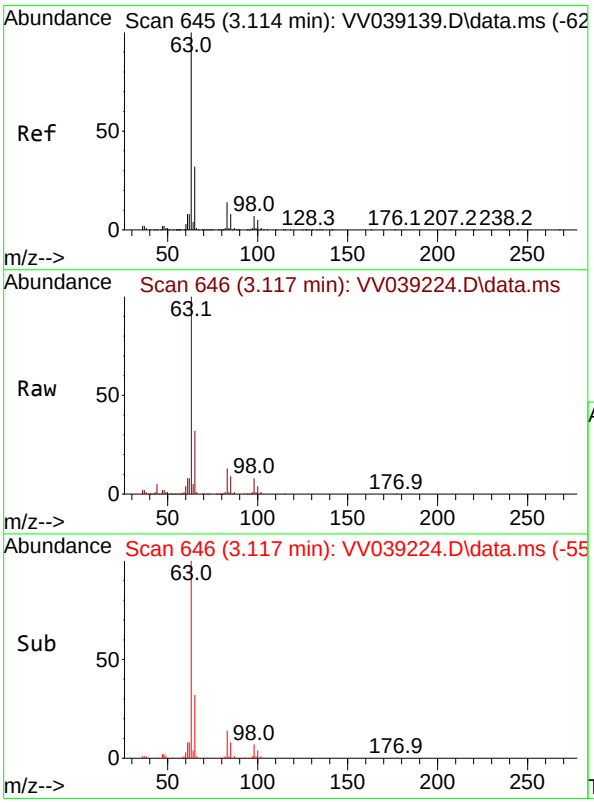
#23
Vinyl Acetate
Concen: 93.651 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 43 Resp: 2180218

Ion	Ratio	Lower	Upper
43	100		
86	11.3	8.4	12.6

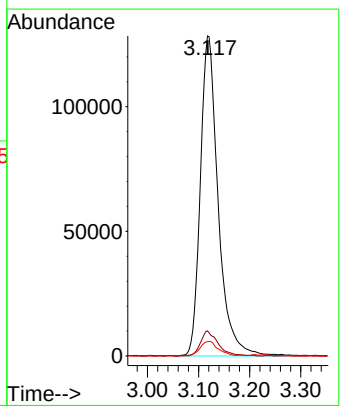


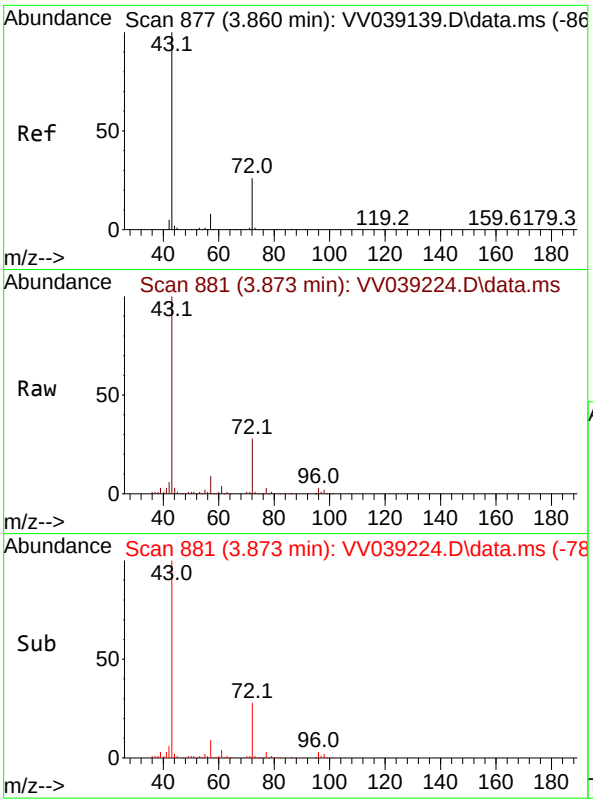


#24
1,1-Dichloroethane
Concen: 19.099 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 63 Resp: 310829

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.4	10.2
100	4.4	2.2	6.6



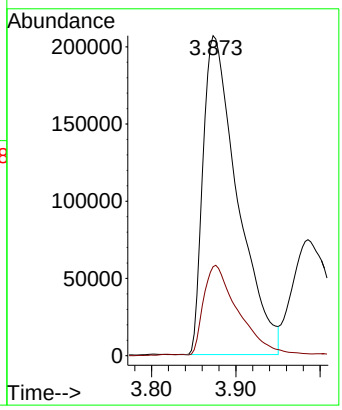


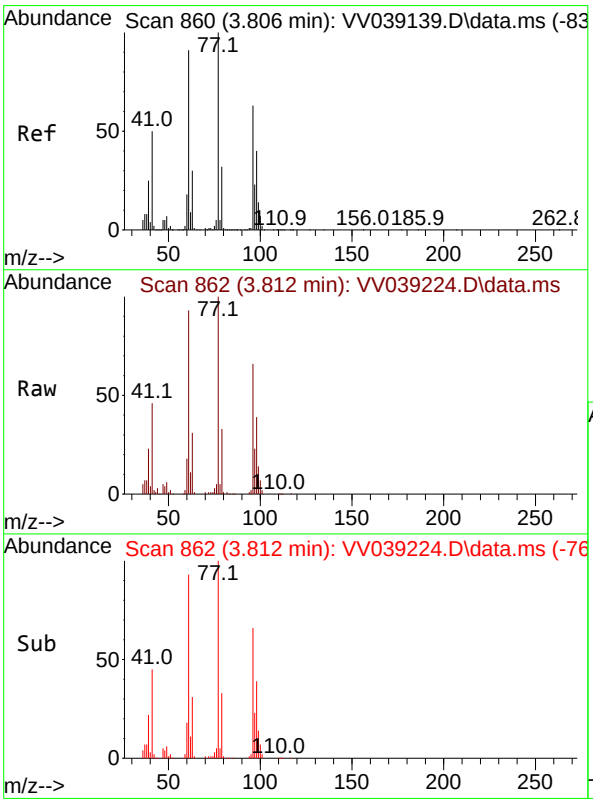
#25
2-Butanone
Concen: 98.528 ug/l
RT: 3.873 min Scan# 8
Delta R.T. 0.013 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 43 Resp: 589737

Ion	Ratio	Lower	Upper
43	100		
72	27.6	21.0	31.6

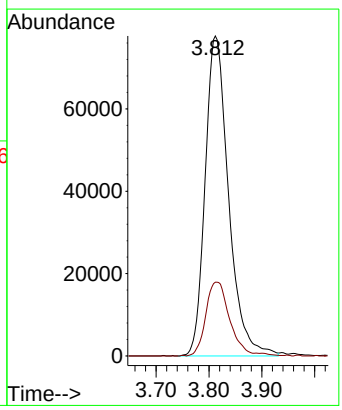


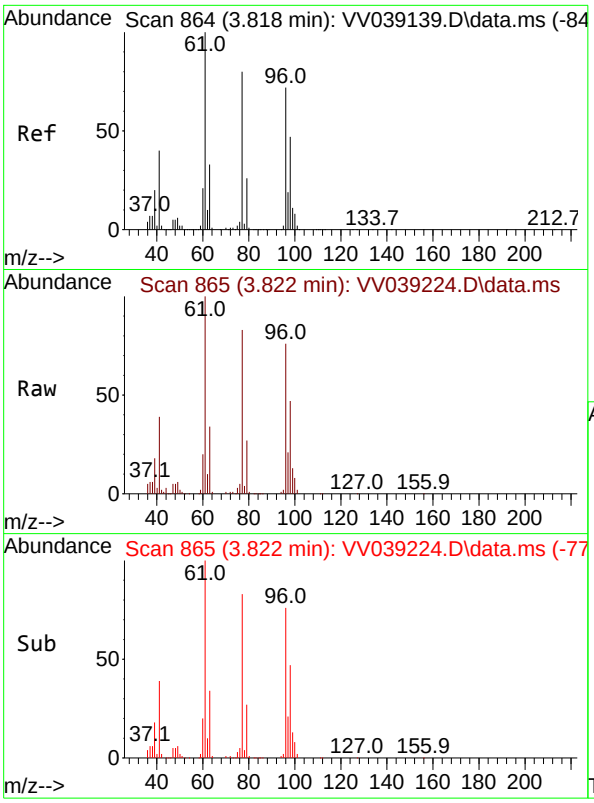


#26
2,2-Dichloropropane
Concen: 16.607 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 77 Resp: 239643

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.7



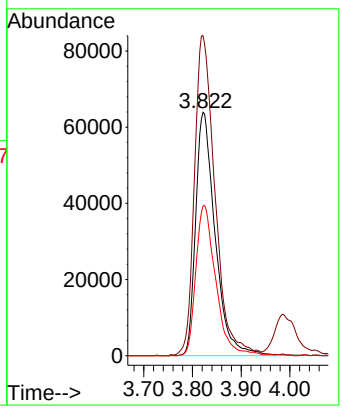


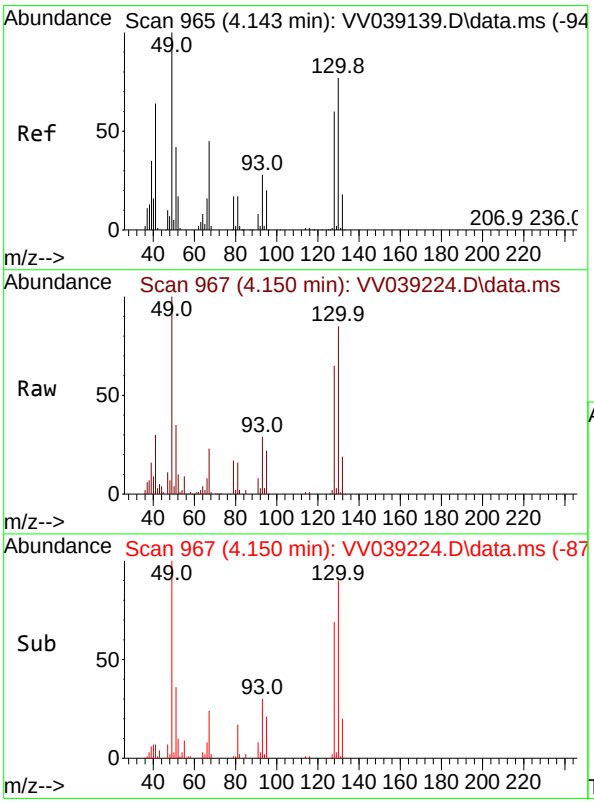
#27
cis-1,2-Dichloroethene
Concen: 19.483 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 96 Resp: 178123

Ion	Ratio	Lower	Upper
96	100		
61	138.4	0.0	286.4
98	62.7	0.0	126.6

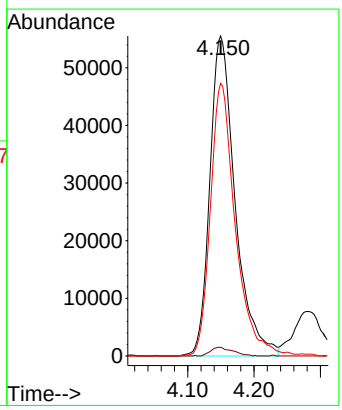


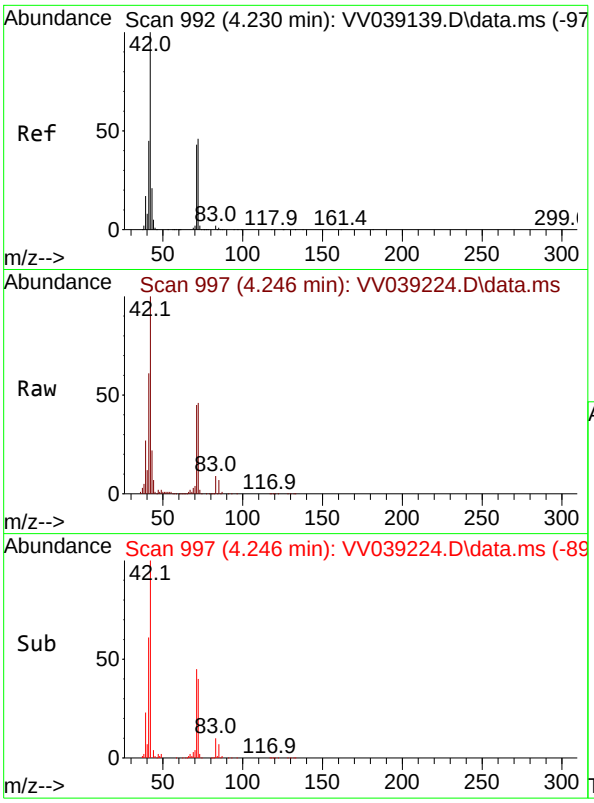


#28
Bromochloromethane
Concen: 20.478 ug/l
RT: 4.150 min Scan# 967
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 49 Resp: 147124

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	83.6	60.2	90.2



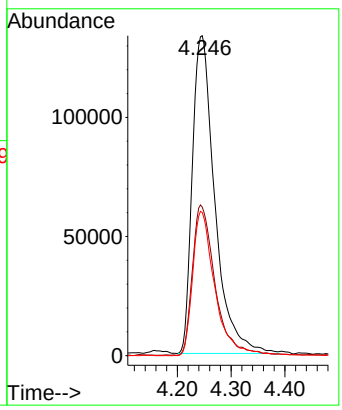


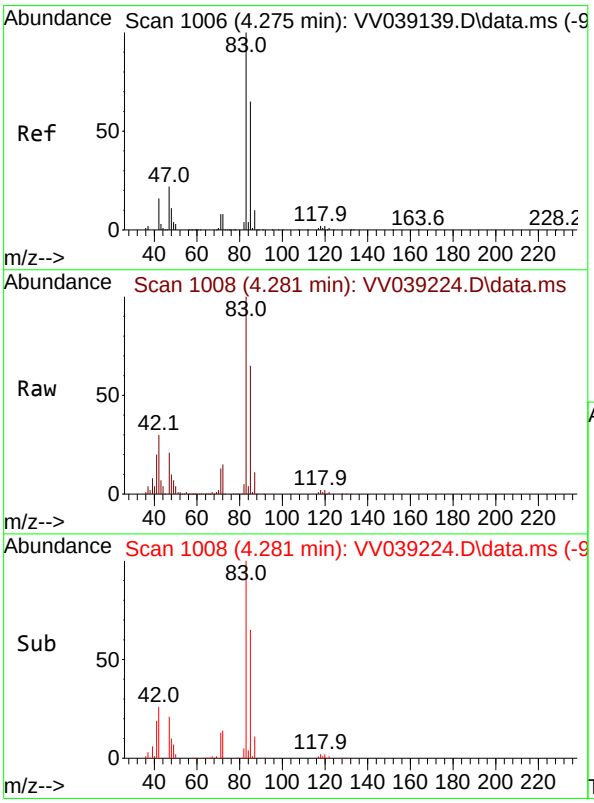
#29
Tetrahydrofuran
Concen: 103.551 ug/l
RT: 4.246 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 42 Resp: 387946

Ion	Ratio	Lower	Upper
42	100		
72	47.3	36.3	54.5
71	45.1	34.3	51.5

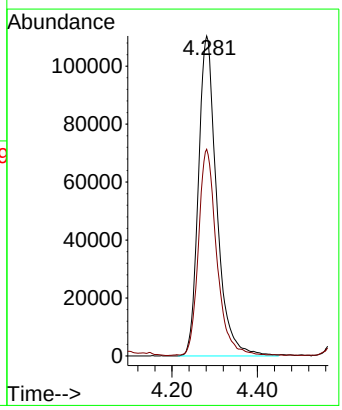


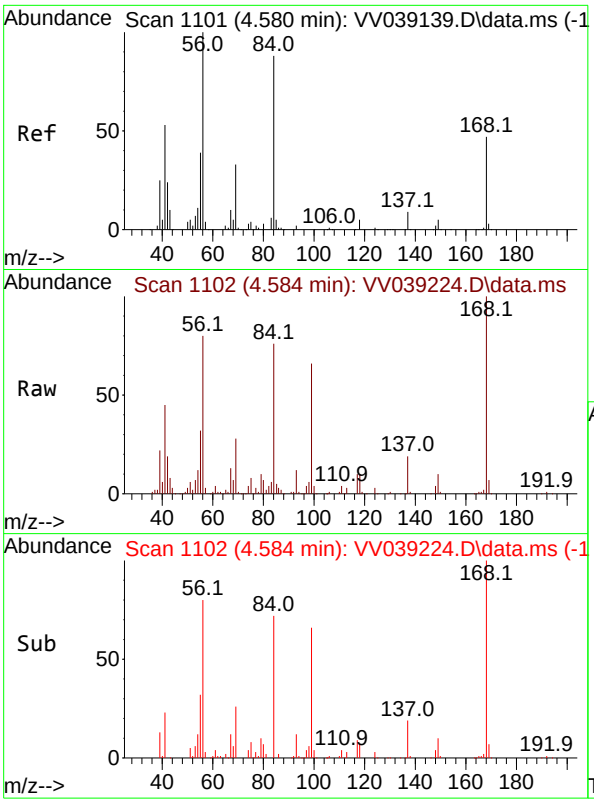


#30
Chloroform
Concen: 19.335 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 83 Resp: 328585

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1



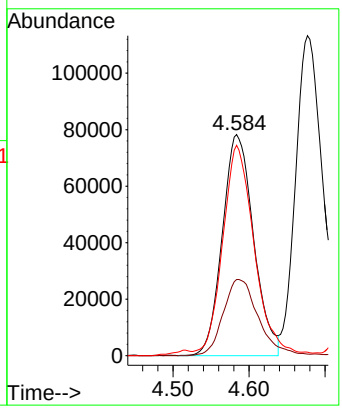


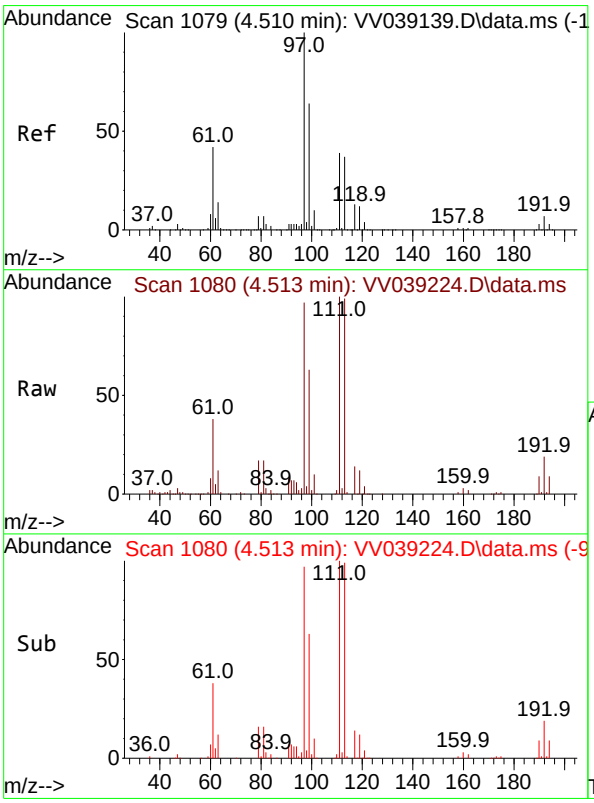
#31
Cyclohexane
Concen: 16.783 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 56 Resp: 223750

Ion	Ratio	Lower	Upper
56	100		
69	34.4	26.2	39.2
84	93.5	70.3	105.5

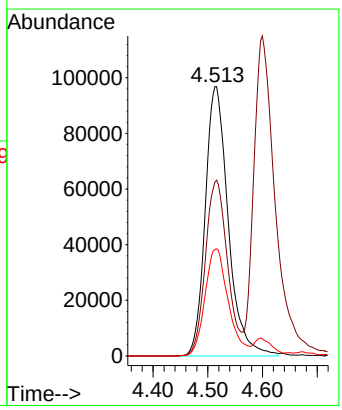


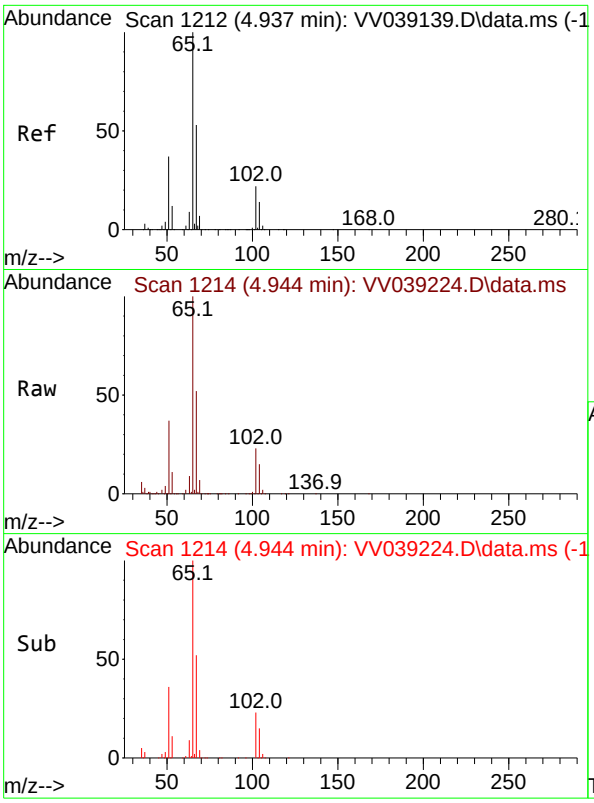


#32
1,1,1-Trichloroethane
Concen: 19.211 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 97 Resp: 282636

Ion	Ratio	Lower	Upper
97	100		
99	62.7	49.6	74.4
61	40.0	34.5	51.7



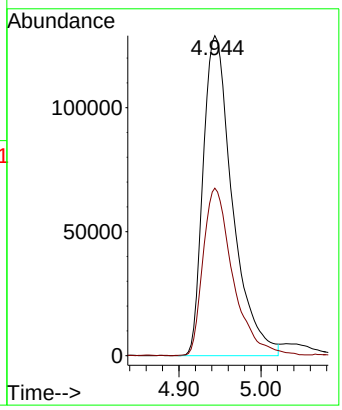


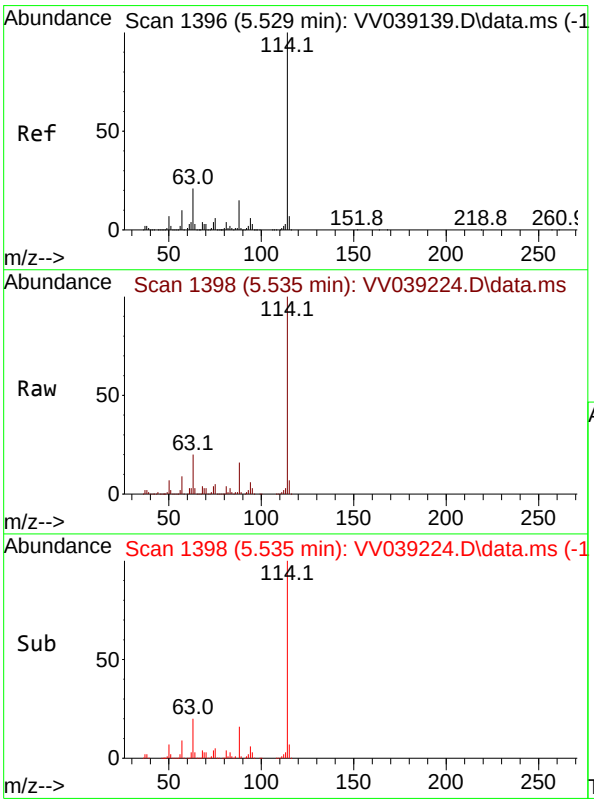
#33
1,2-Dichloroethane-d4
Concen: 42.778 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 65 Resp: 319747

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	107.0

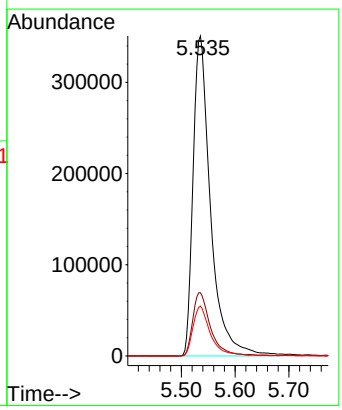


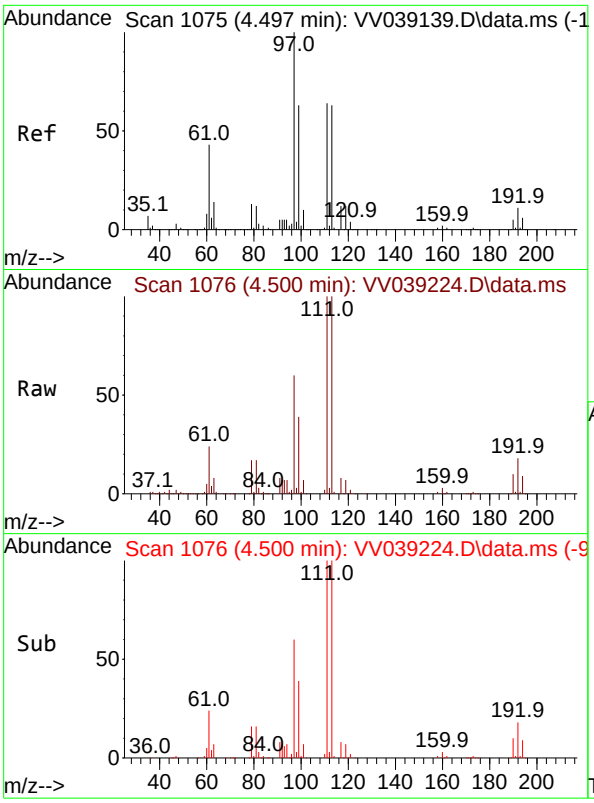


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:114 Resp: 792956

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	42.6
88	15.6	0.0	30.8



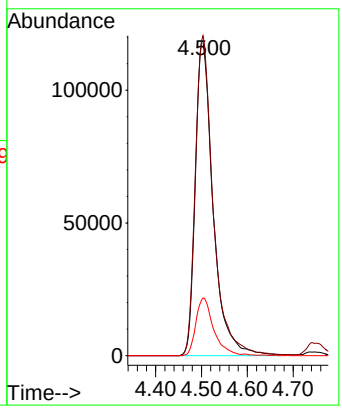


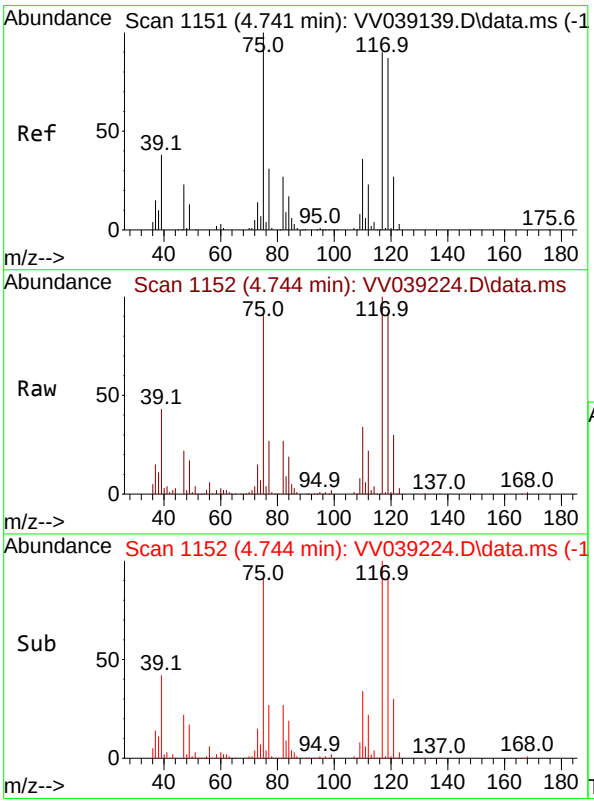
#35
Dibromofluoromethane
Concen: 50.231 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:113 Resp: 320211

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.4	123.6
192	18.2	13.8	20.8

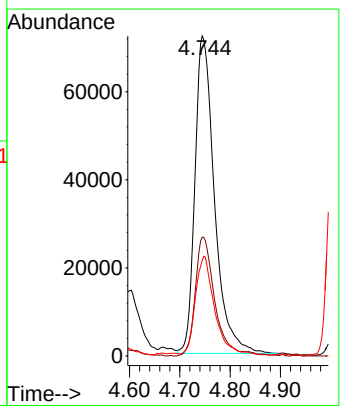


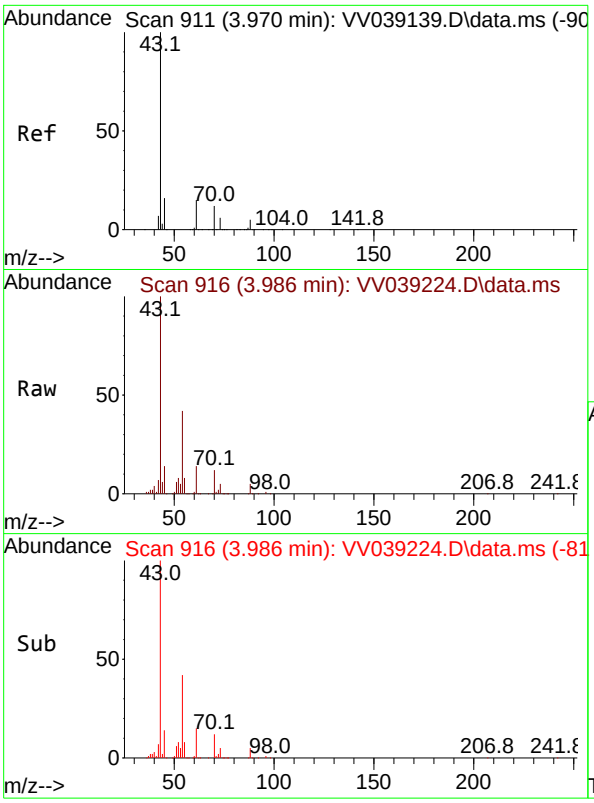


#36
1,1-Dichloropropene
Concen: 20.218 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 194860

Ion	Ratio	Lower	Upper
75	100		
110	37.7	18.1	54.1
77	29.2	24.8	37.2



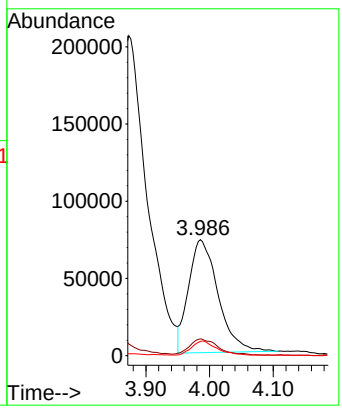


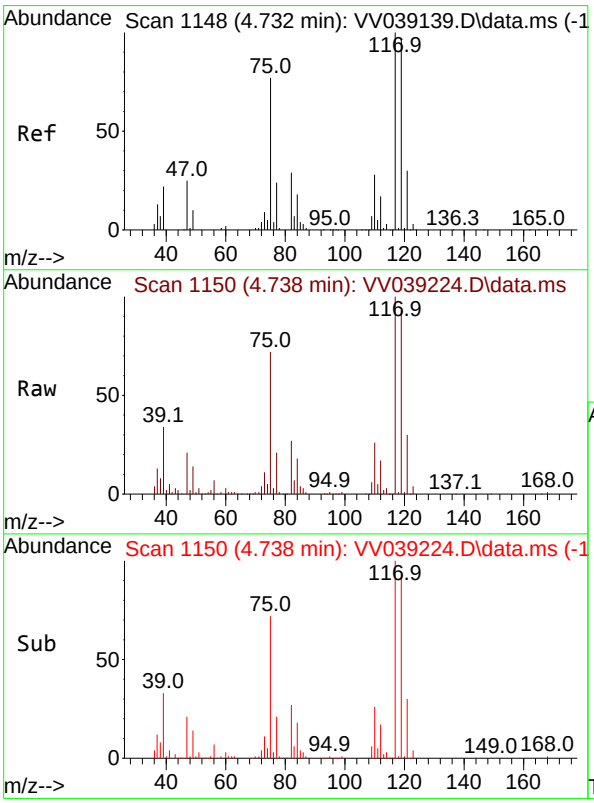
#37
Ethyl Acetate
Concen: 20.249 ug/l
RT: 3.986 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 43 Resp: 236815

Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.3	15.5
70	10.3	8.0	12.0

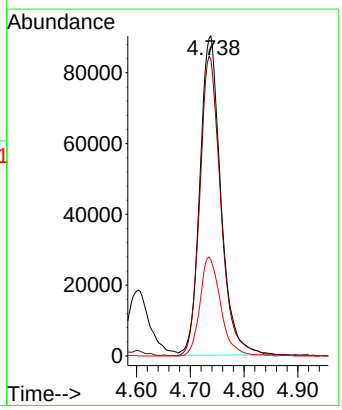


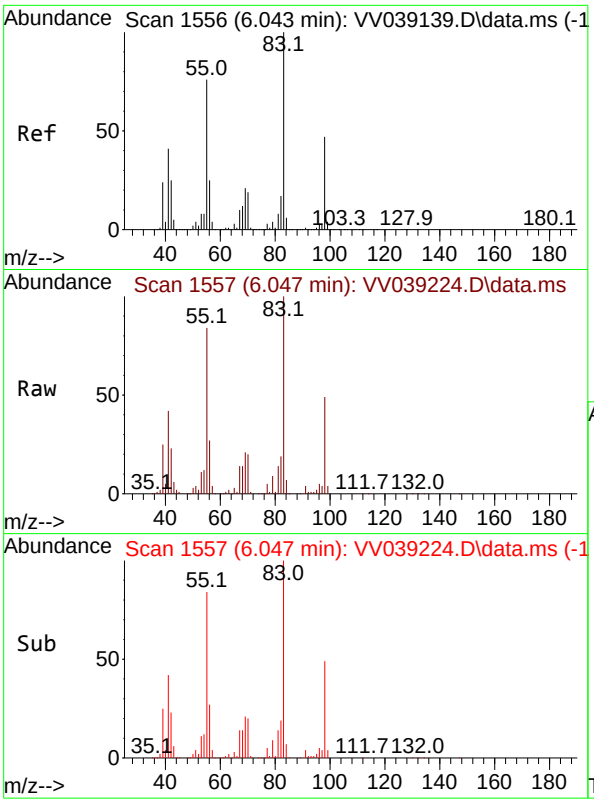


#38
Carbon Tetrachloride
Concen: 20.706 ug/l
RT: 4.738 min Scan# 1150
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:117 Resp: 243896

Ion	Ratio	Lower	Upper
117	100		
119	92.9	77.2	115.8
121	30.2	24.2	36.2



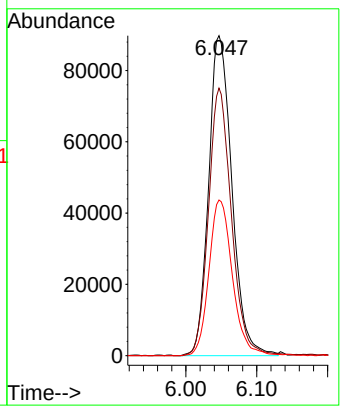


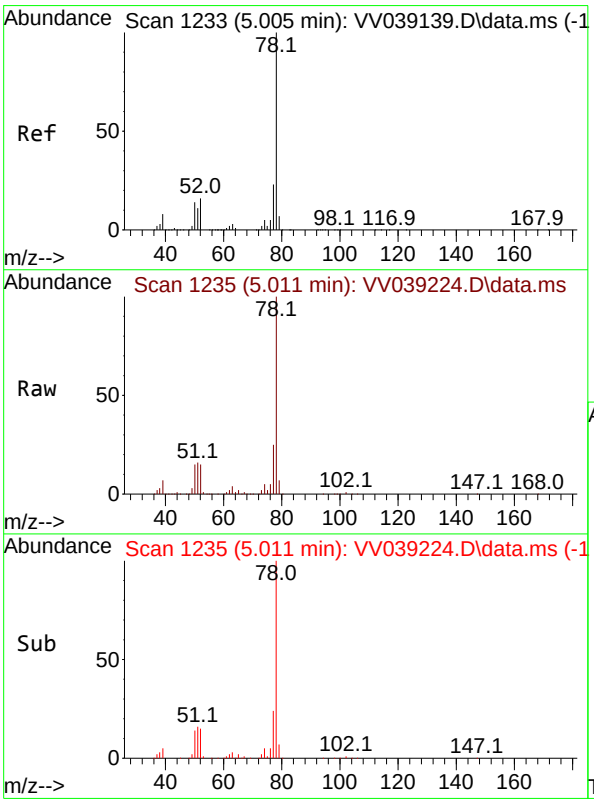
#39
Methylcyclohexane
Concen: 17.650 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 83 Resp: 205429

Ion	Ratio	Lower	Upper
83	100		
55	83.6	60.5	90.7
98	48.7	37.8	56.6

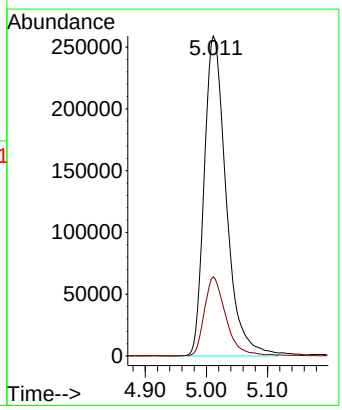


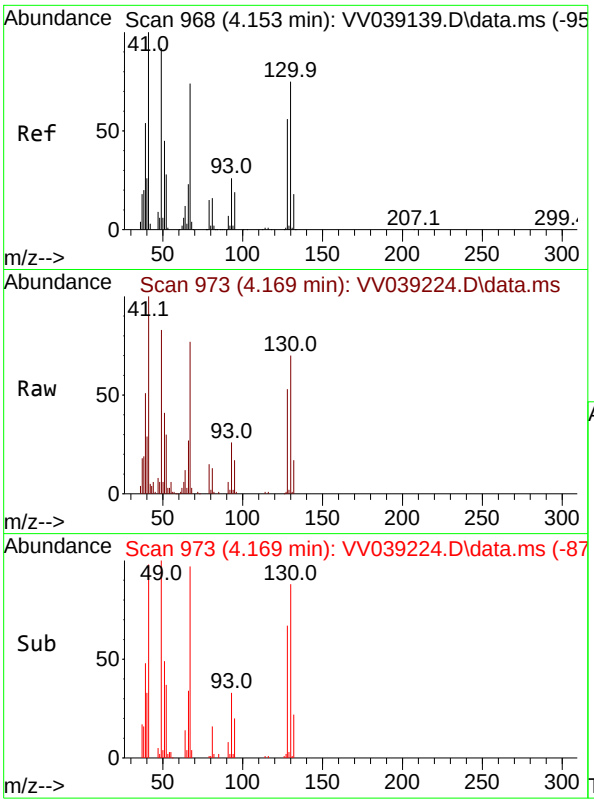


#40
Benzene
Concen: 20.619 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 78 Resp: 647129

Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.7	28.1



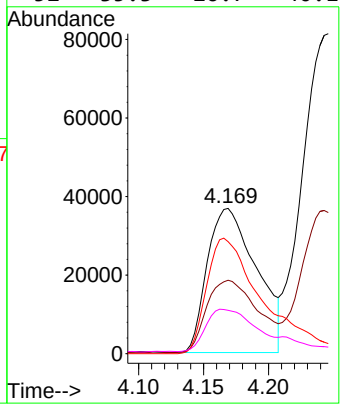


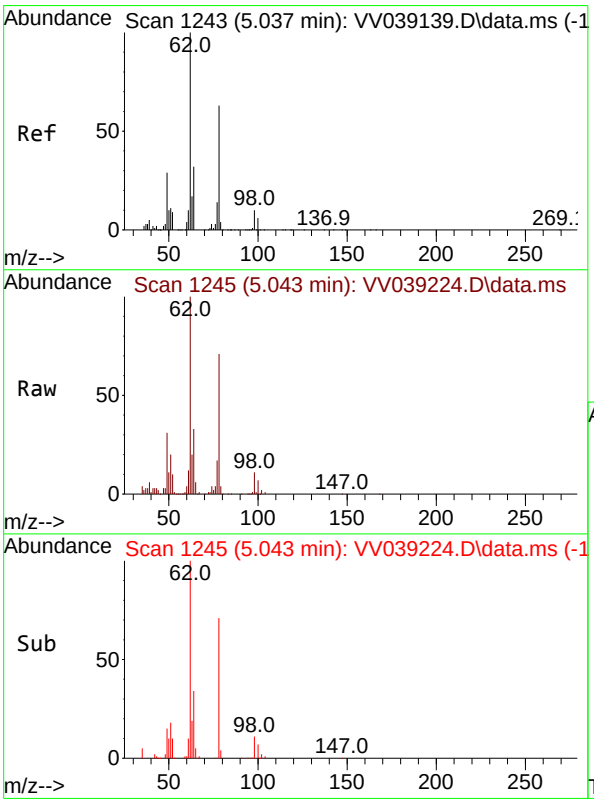
#41
Methacrylonitrile
Concen: 19.547 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 41 Resp: 96963

Ion	Ratio	Lower	Upper
41	100		
39	52.1	42.2	63.2
67	93.5	67.9	101.9
52	35.3	26.7	40.1

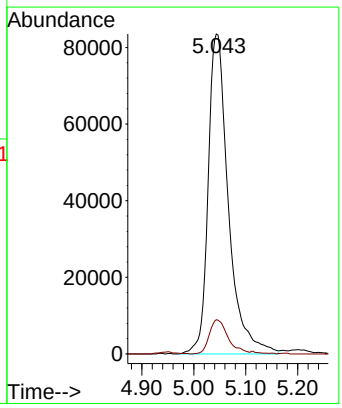


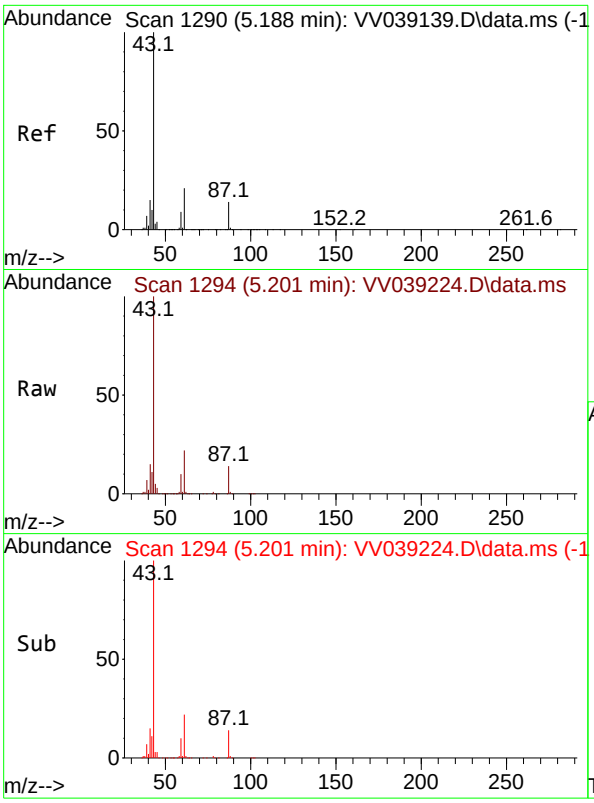


#42
1,2-Dichloroethane
Concen: 20.546 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 62 Resp: 225943

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.2



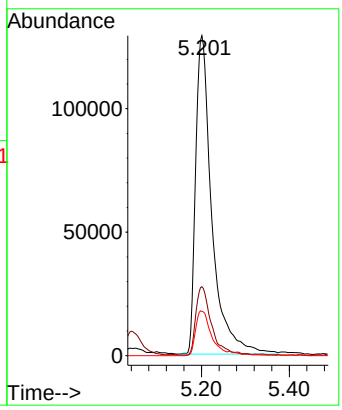


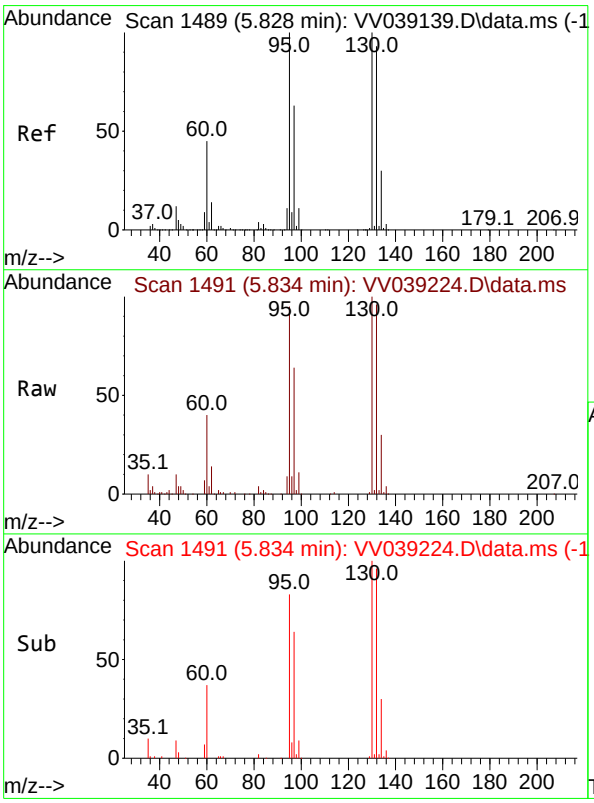
#43
Isopropyl Acetate
Concen: 20.762 ug/l
RT: 5.201 min Scan# 1
Delta R.T. 0.013 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 43 Resp: 331062

Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.9	23.9
87	13.3	11.0	16.6

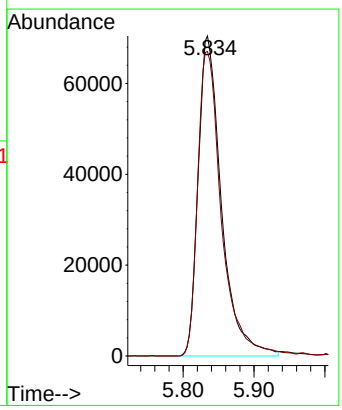


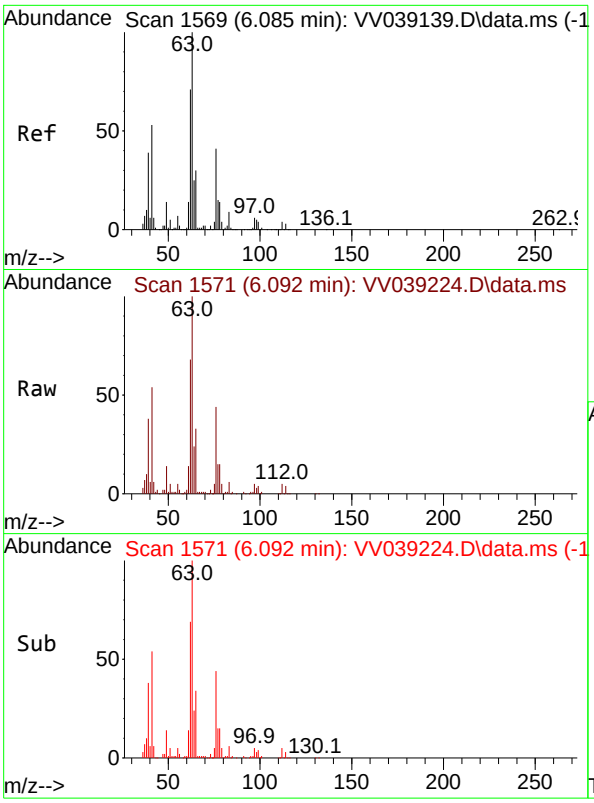


#44
Trichloroethene
Concen: 22.097 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:130 Resp: 160027

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	199.2



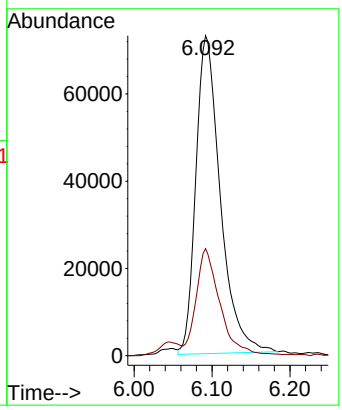


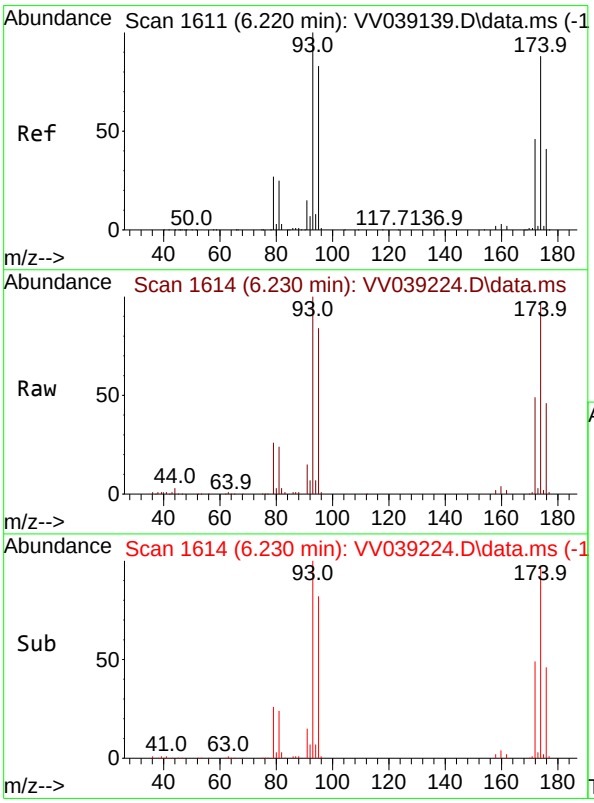
#45
1,2-Dichloropropane
Concen: 20.387 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 63 Resp: 159034

Ion	Ratio	Lower	Upper
63	100		
65	33.4	23.7	35.5

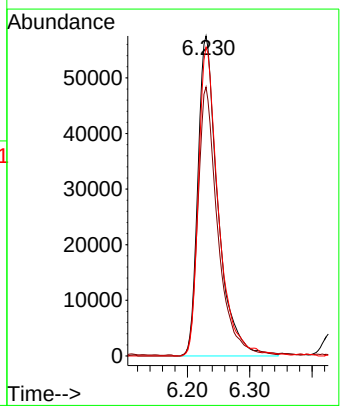


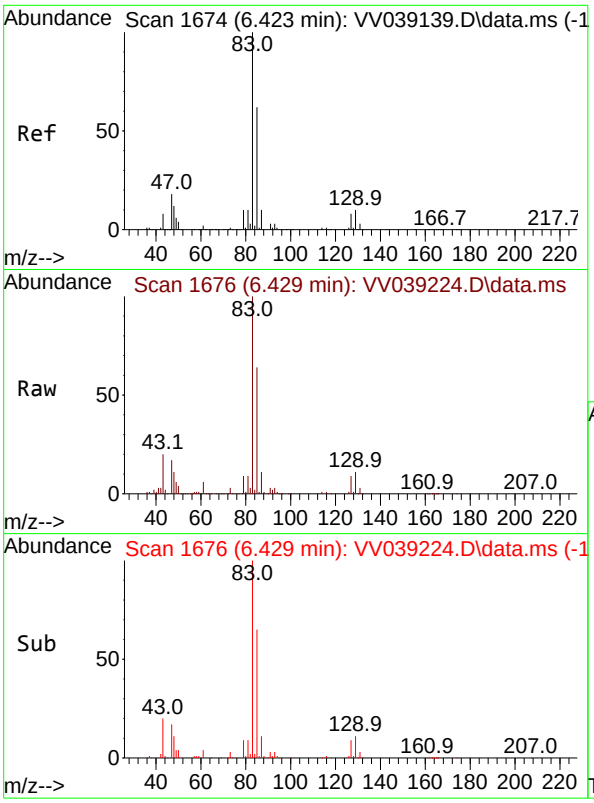


#46
Dibromomethane
Concen: 21.439 ug/l
RT: 6.230 min Scan# 1614
Delta R.T. 0.010 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 93 Resp: 128007

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.5	98.3
174	96.7	69.0	103.4



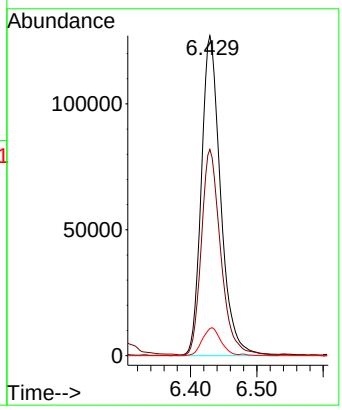


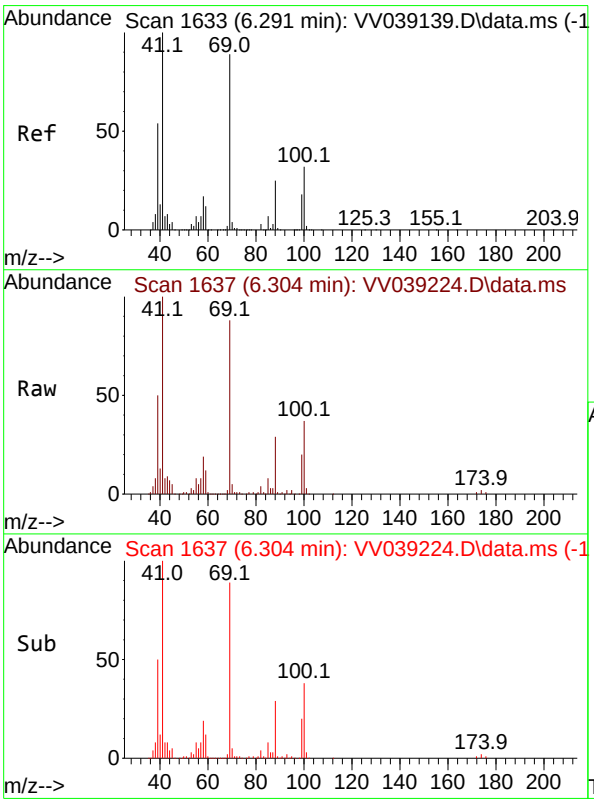
#47
Bromodichloromethane
Concen: 20.791 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 83 Resp: 256635

Ion	Ratio	Lower	Upper
83	100		
85	64.3	49.7	74.5
127	8.5	6.6	9.8

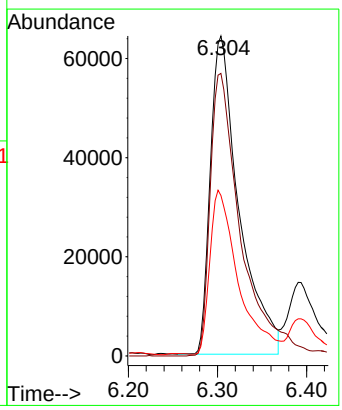


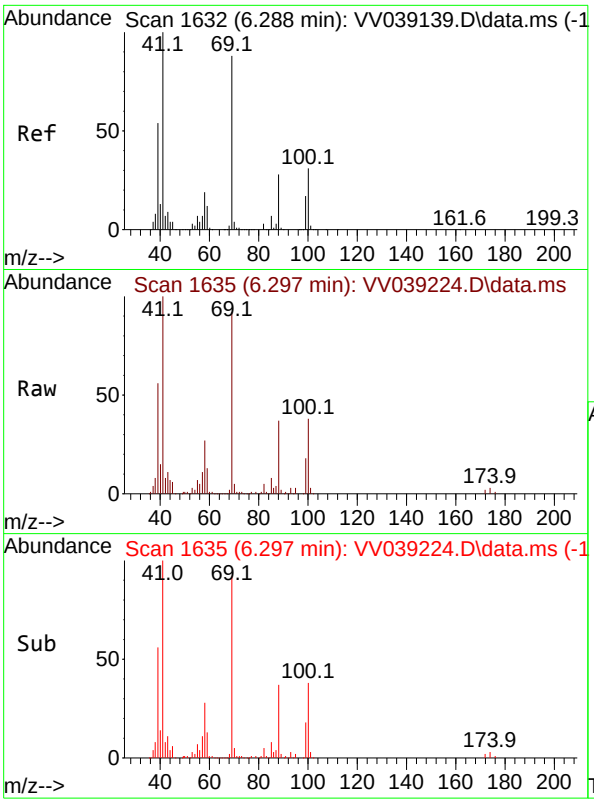


#48
Methyl methacrylate
Concen: 19.866 ug/l
RT: 6.304 min Scan# 1637
Delta R.T. 0.013 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 41 Resp: 143594

Ion	Ratio	Lower	Upper
41	100		
69	94.5	72.4	108.6
39	50.9	42.5	63.7



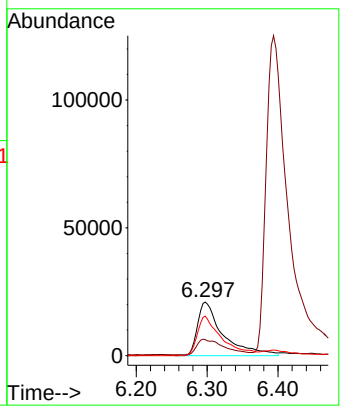


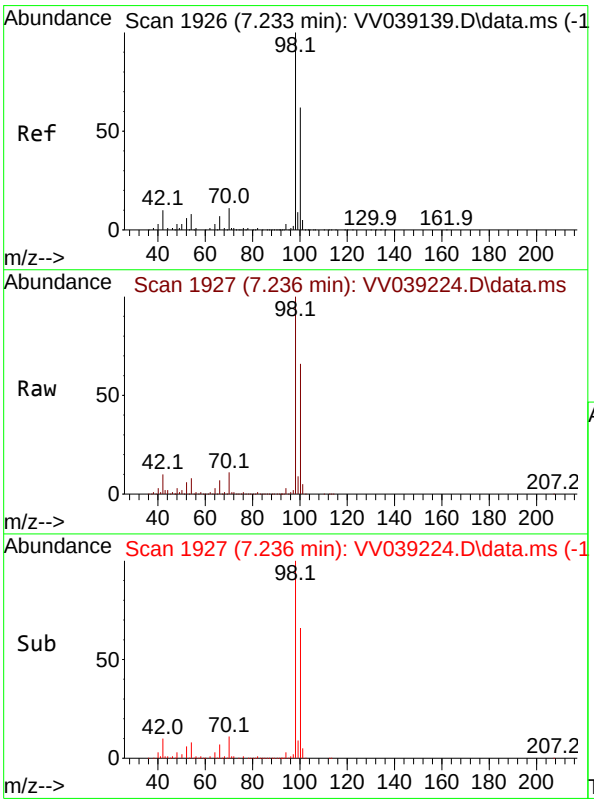
#49
1,4-Dioxane
Concen: 450.027 ug/l
RT: 6.297 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 88 Resp: 52495

Ion	Ratio	Lower	Upper
88	100		
43	32.2	25.1	37.7
58	69.8	53.6	80.4

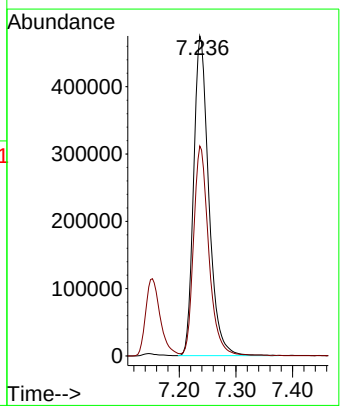


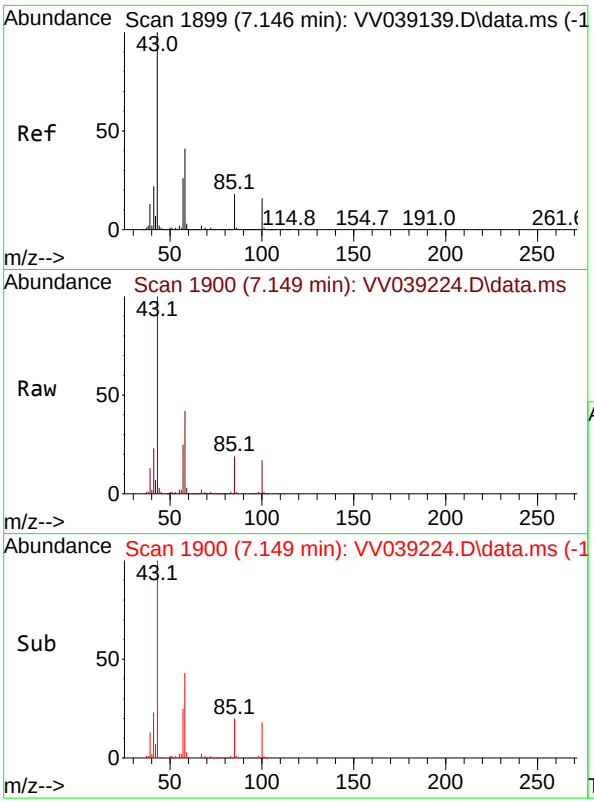


#50
Toluene-d8
Concen: 47.072 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 98 Resp: 881306

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.2	78.2



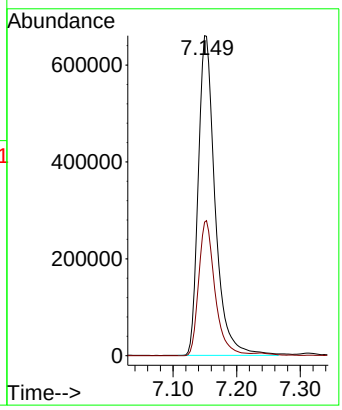


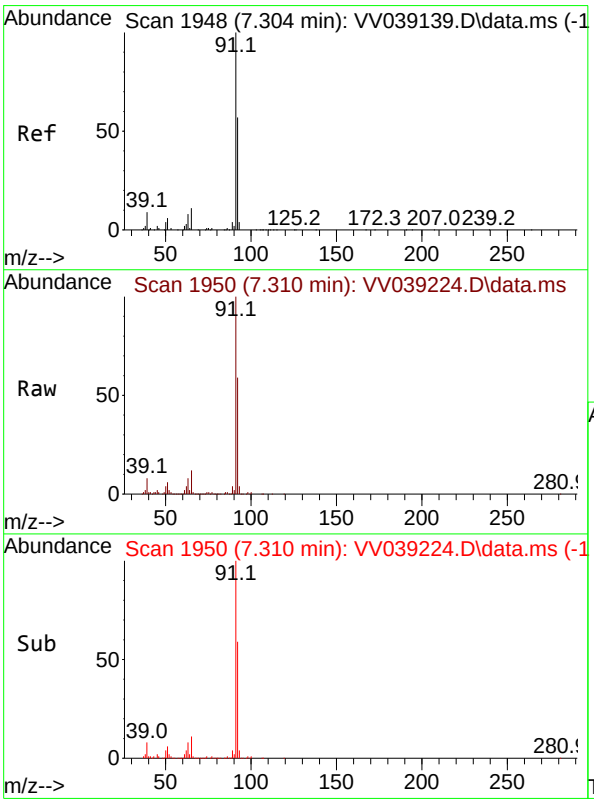
#51
4-Methyl-2-Pentanone
Concen: 115.662 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 43 Resp: 1213345

Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.3	48.5

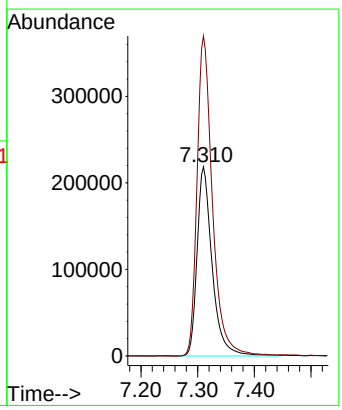


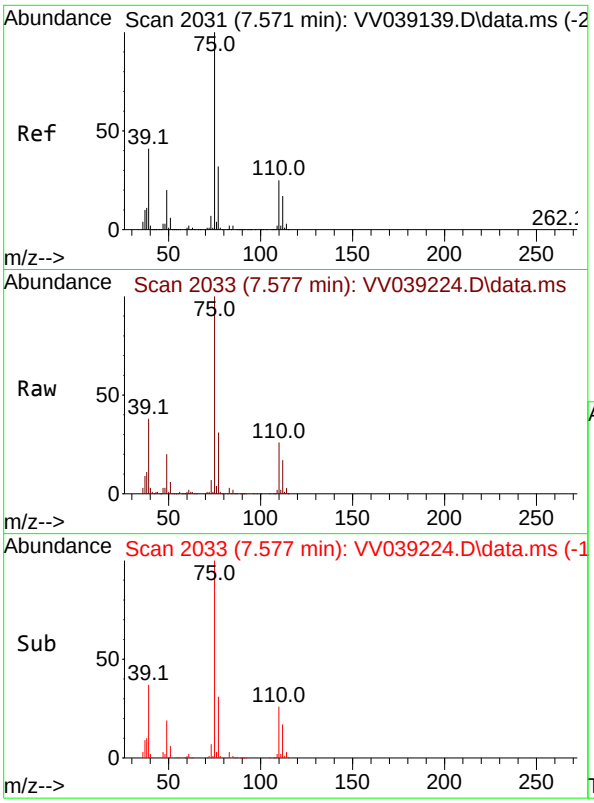


#52
Toluene
Concen: 22.137 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 92 Resp: 402833

Ion	Ratio	Lower	Upper
92	100		
91	172.8	139.2	208.8



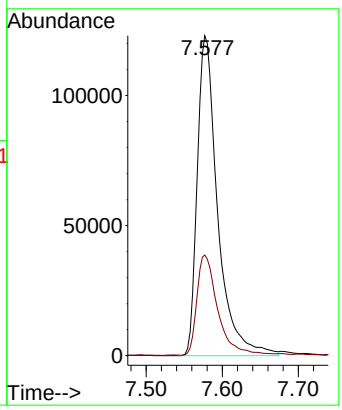


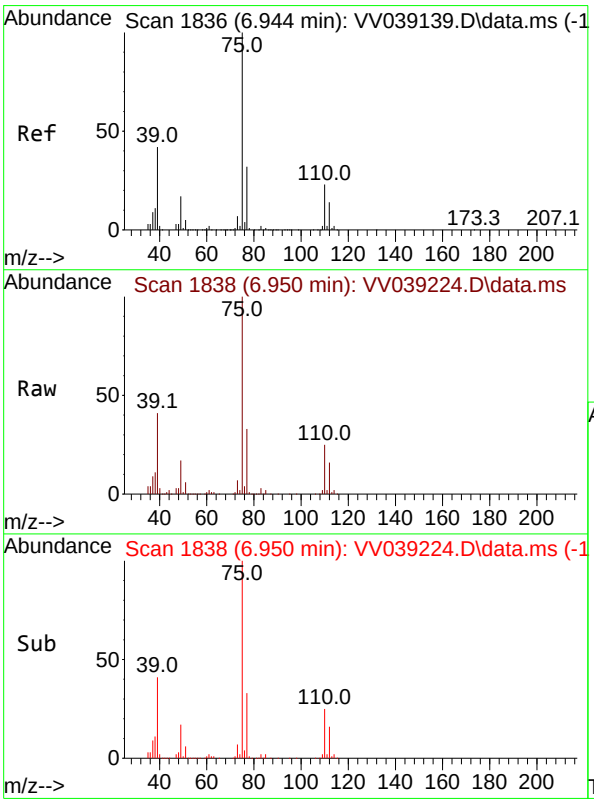
#53
t-1,3-Dichloropropene
Concen: 21.329 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 75 Resp: 229437

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.9	38.9

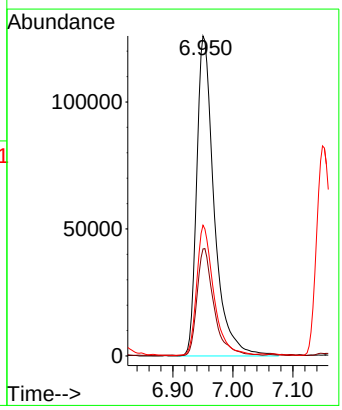


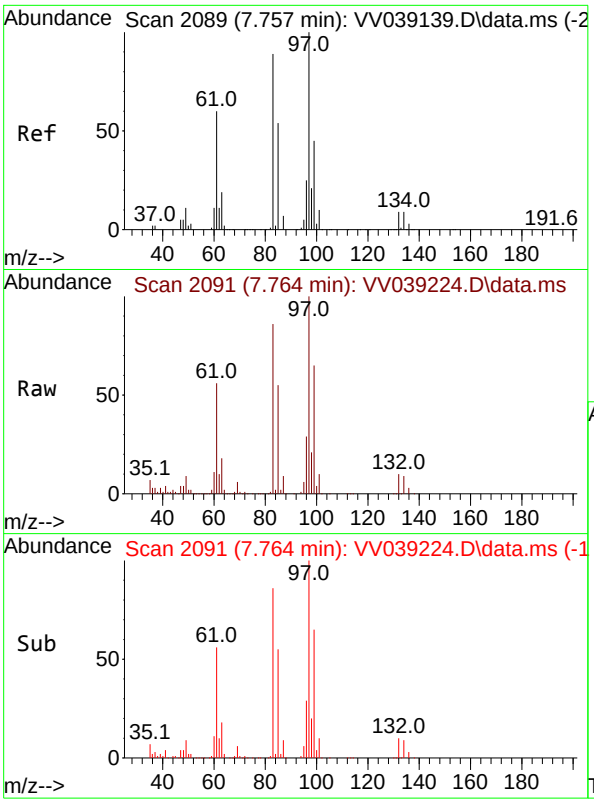


#54
cis-1,3-Dichloropropene
Concen: 21.568 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 256128

Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.5	38.3
39	40.6	33.8	50.6



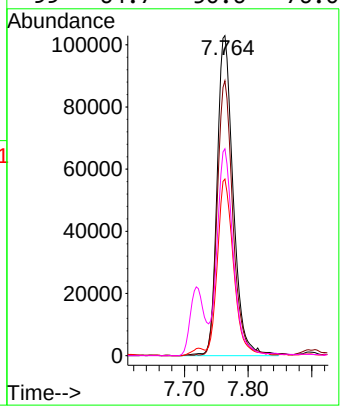


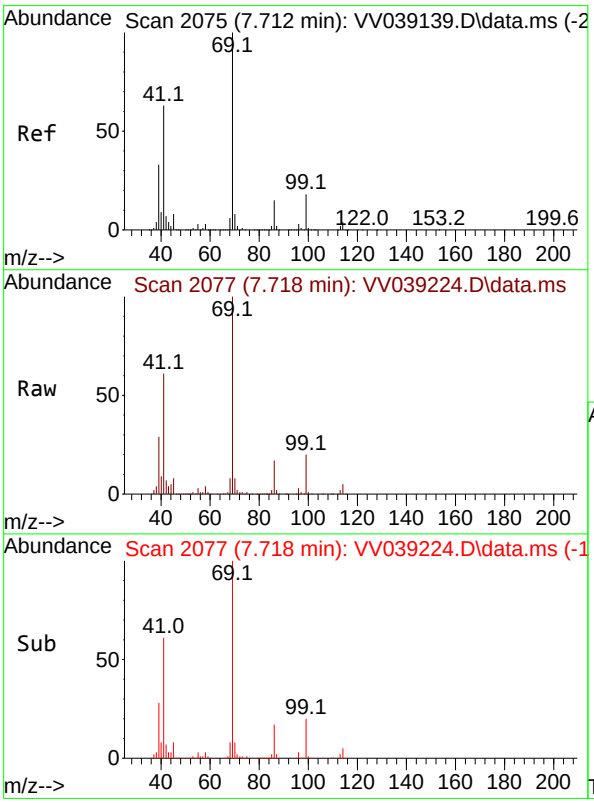
#55
1,1,2-Trichloroethane
Concen: 22.104 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 97 Resp: 180352

Ion	Ratio	Lower	Upper
97	100		
83	85.9	71.1	106.7
85	55.2	44.6	67.0
99	64.7	50.6	76.0

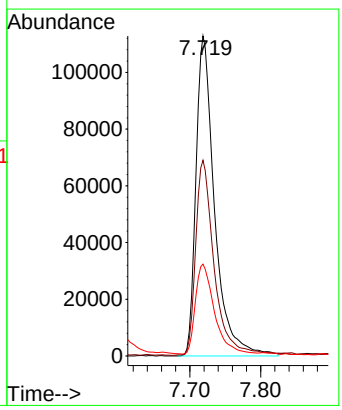


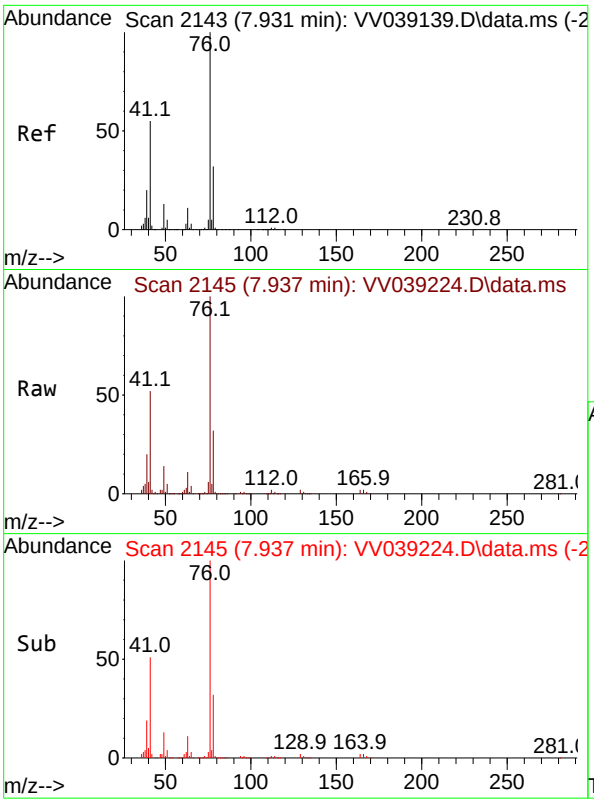


#56
Ethyl methacrylate
Concen: 21.263 ug/l
RT: 7.718 min Scan# 2077
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 69 Resp: 206033

Ion	Ratio	Lower	Upper
69	100		
41	60.6	50.7	76.1
39	28.5	26.0	39.0



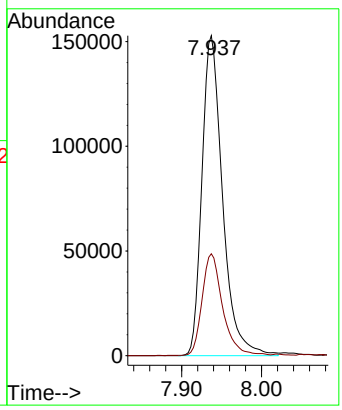


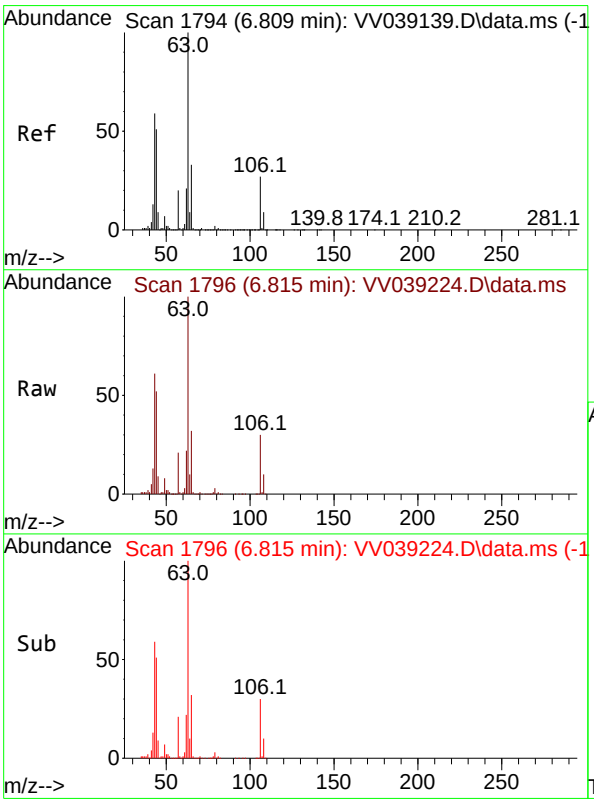
#57
1,3-Dichloropropane
Concen: 21.324 ug/l
RT: 7.937 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 76 Resp: 274579

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.1	39.1

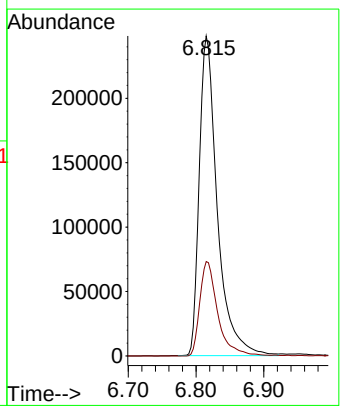


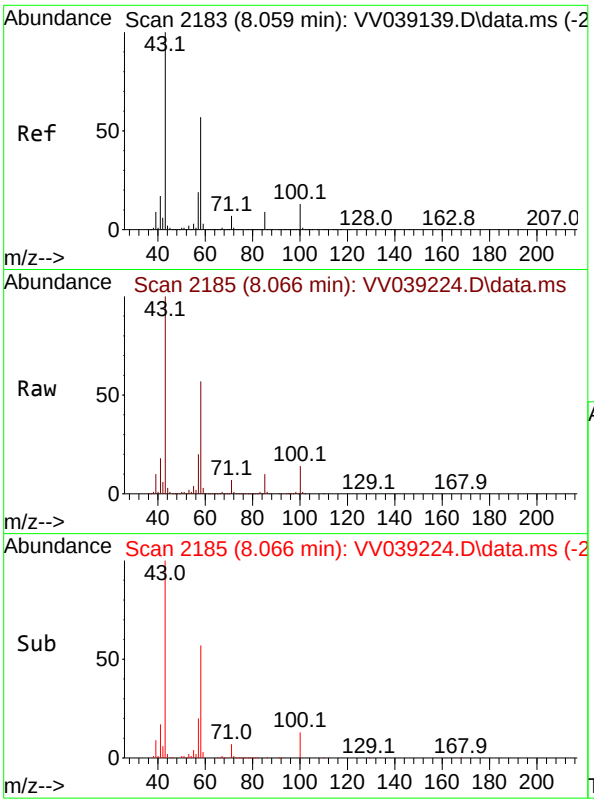


#58
2-Chloroethyl Vinyl ether
Concen: 90.272 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 63 Resp: 458913

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.1	33.1



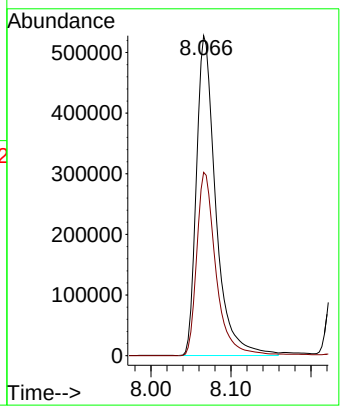


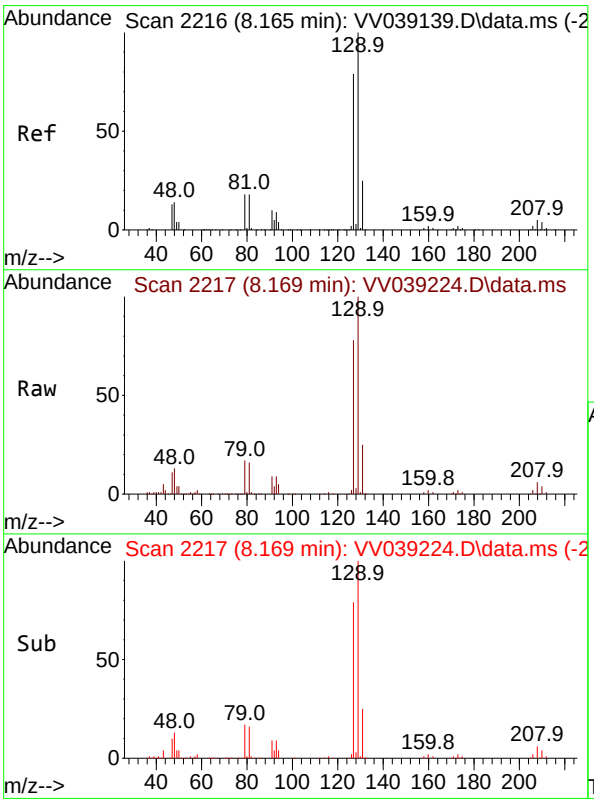
#59
2-Hexanone
Concen: 106.332 ug/l
RT: 8.066 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 43 Resp: 888978

Ion	Ratio	Lower	Upper
43	100		
58	57.6	28.3	85.0

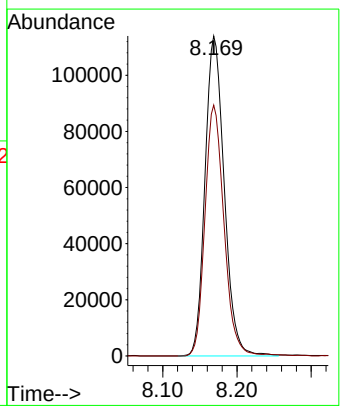


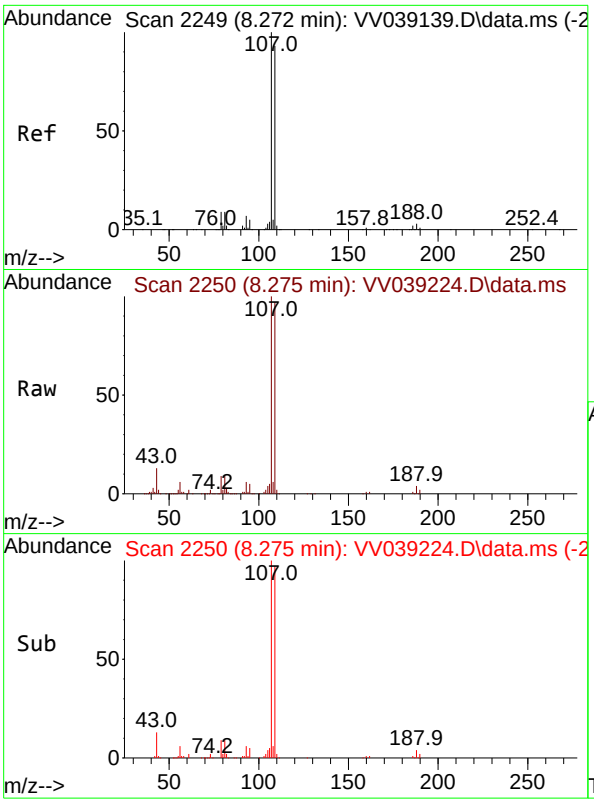


#60
Dibromochloromethane
Concen: 22.022 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:129 Resp: 204739

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.3	117.9



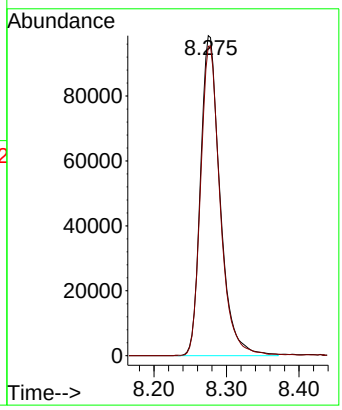


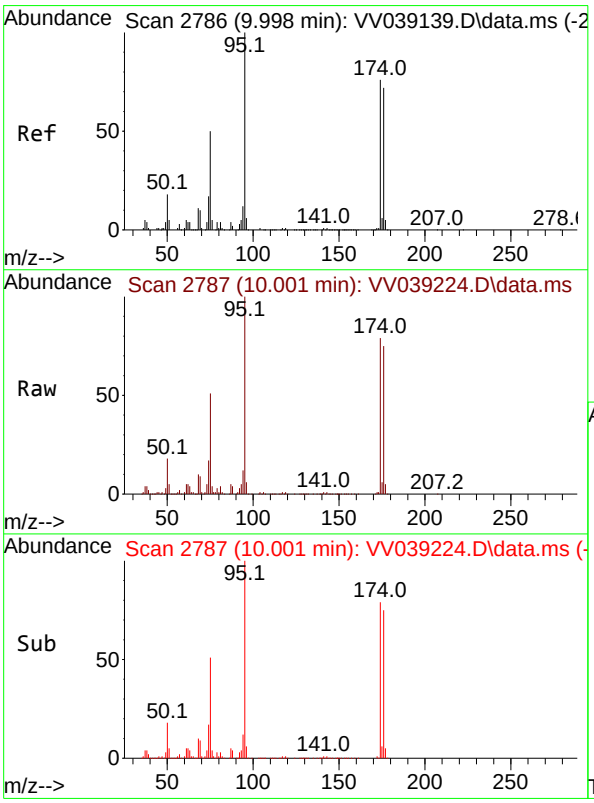
#61
1,2-Dibromoethane
Concen: 22.089 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:107 Resp: 184314

Ion	Ratio	Lower	Upper
107	100		
109	96.5	74.6	112.0

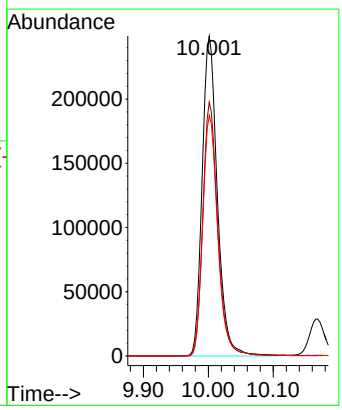


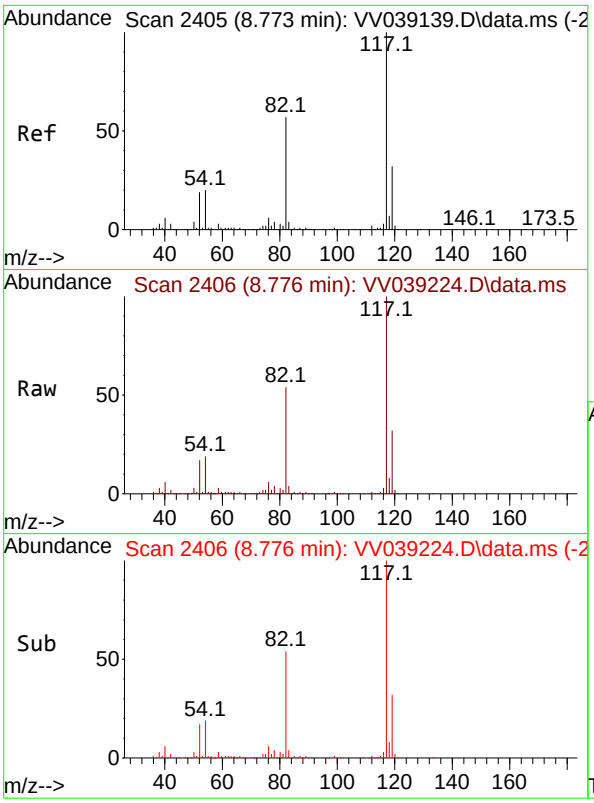


#62
4-Bromofluorobenzene
Concen: 52.700 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 95 Resp: 406193

Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	150.4
176	74.4	0.0	144.2



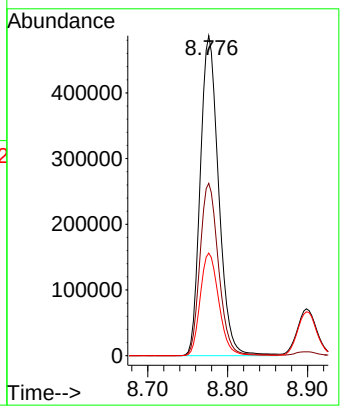


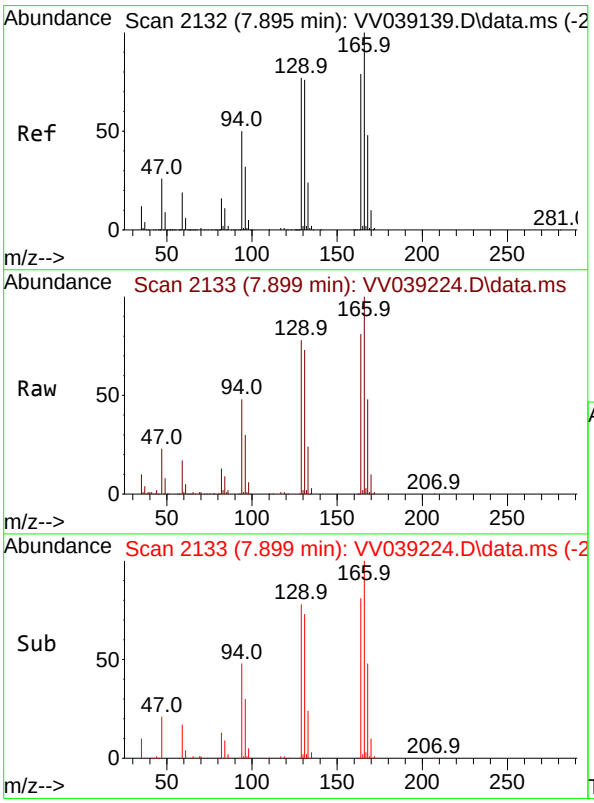
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:117 Resp: 778611

Ion	Ratio	Lower	Upper
117	100		
82	53.8	45.4	68.2
119	32.1	25.6	38.4

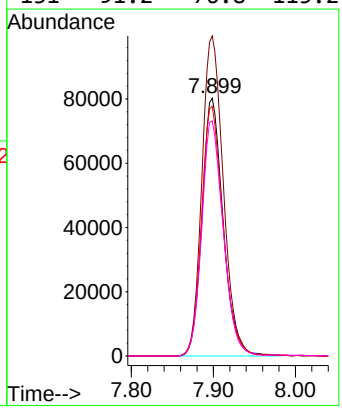


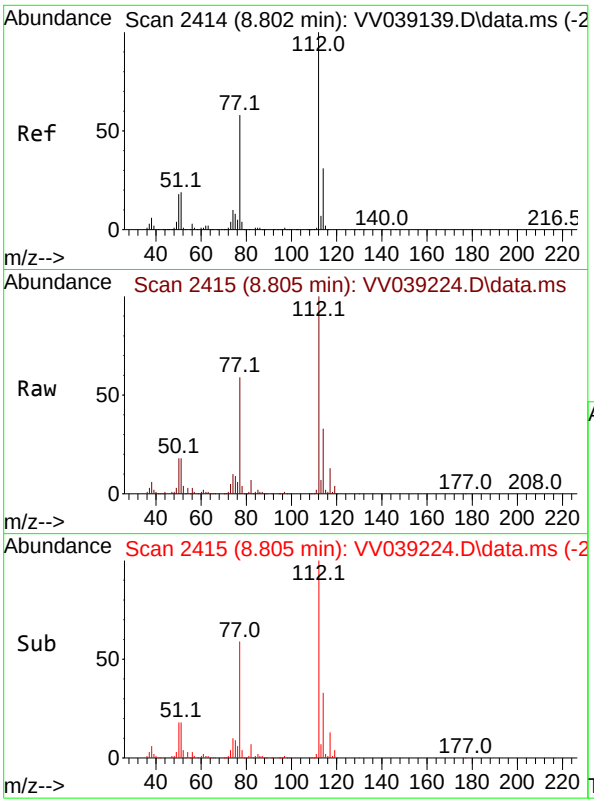


#64
Tetrachloroethene
Concen: 21.989 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:164 Resp: 143400

Ion	Ratio	Lower	Upper
164	100		
166	124.1	101.6	152.4
129	96.9	78.5	117.7
131	91.2	76.8	115.2



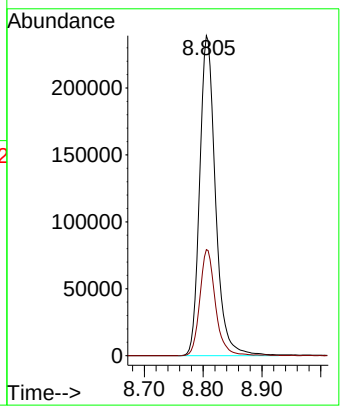


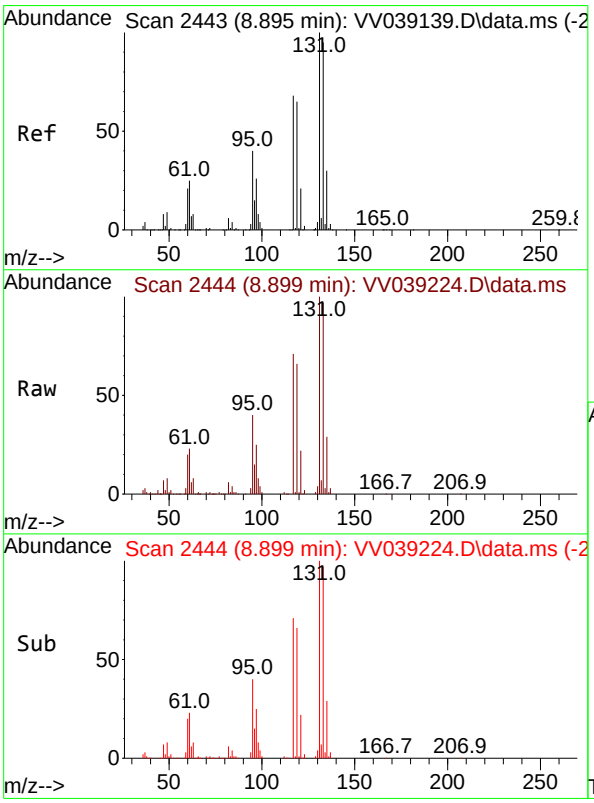
#65
Chlorobenzene
Concen: 20.614 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:112 Resp: 447060

Ion	Ratio	Lower	Upper
112	100		
114	33.2	24.6	37.0

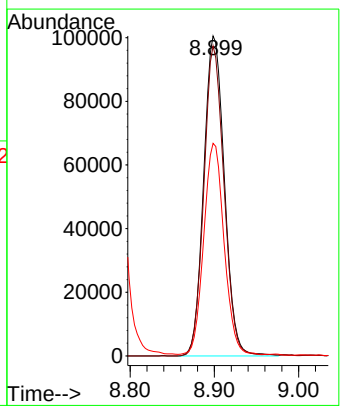


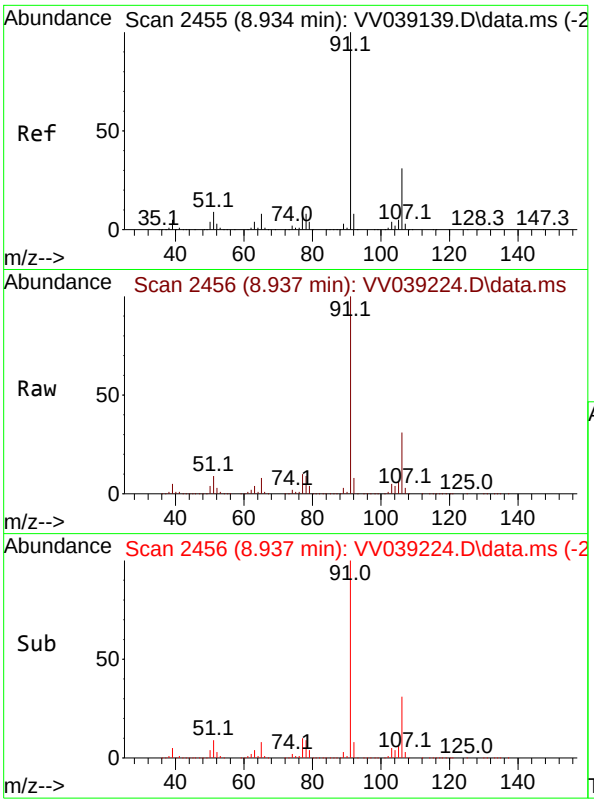


#66
1,1,1,2-Tetrachloroethane
Concen: 21.934 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:131 Resp: 171881

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	65.1	33.3	99.8



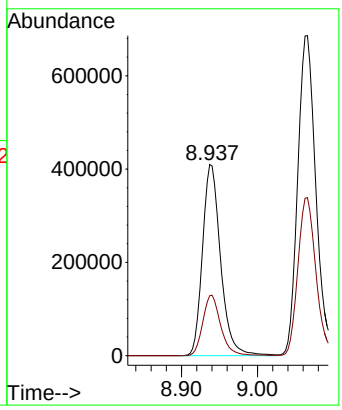


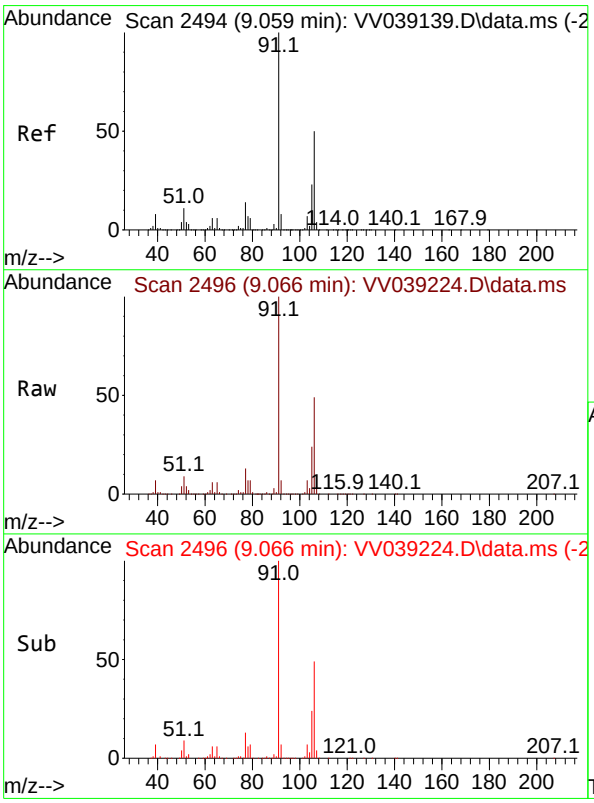
#67
Ethyl Benzene
Concen: 20.710 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 91 Resp: 679904

Ion	Ratio	Lower	Upper
91	100		
106	31.4	24.6	37.0

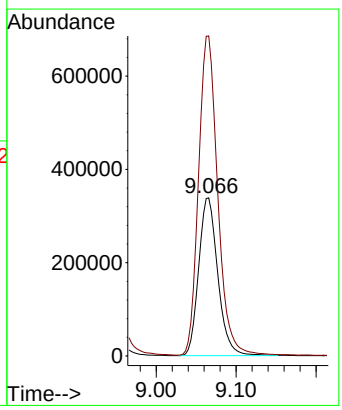


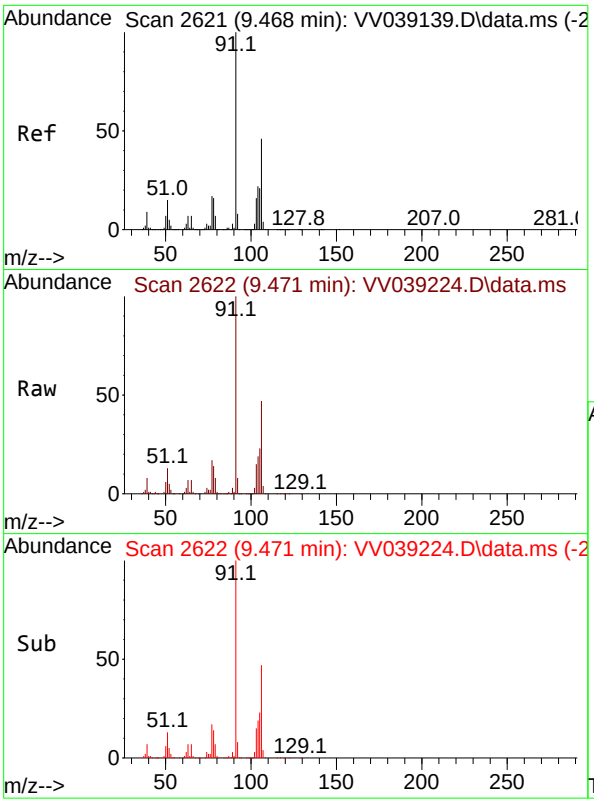


#68
m/p-Xylenes
Concen: 44.453 ug/l
RT: 9.066 min Scan# 2496
Delta R.T. 0.007 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:106 Resp: 563248

Ion	Ratio	Lower	Upper
106	100		
91	203.7	162.5	243.7



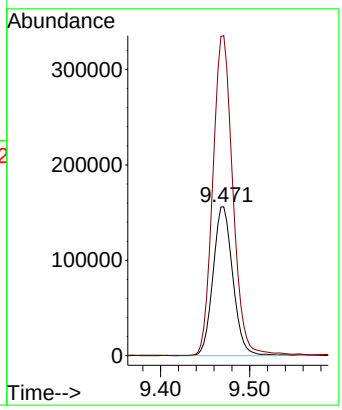


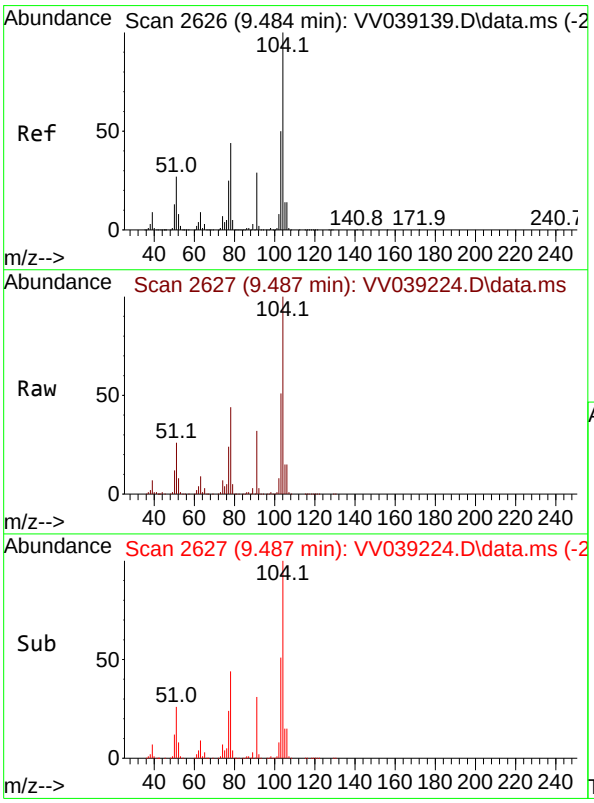
#69
o-Xylene
Concen: 21.475 ug/l
RT: 9.471 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:106 Resp: 240935

Ion	Ratio	Lower	Upper
106	100		
91	217.1	109.1	327.3

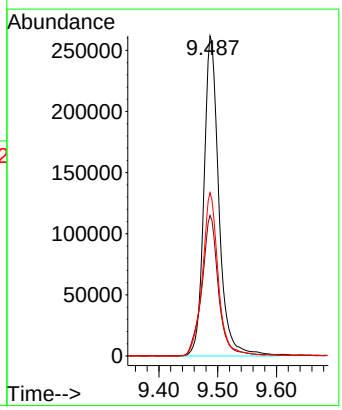


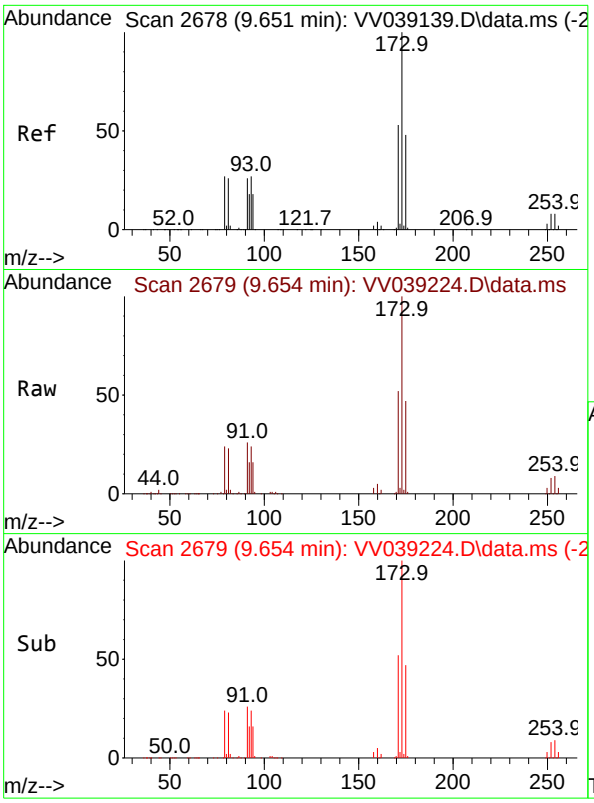


#70
Styrene
Concen: 20.357 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:104 Resp: 463036

Ion	Ratio	Lower	Upper
104	100		
78	48.5	39.8	59.6
103	54.0	43.4	65.2



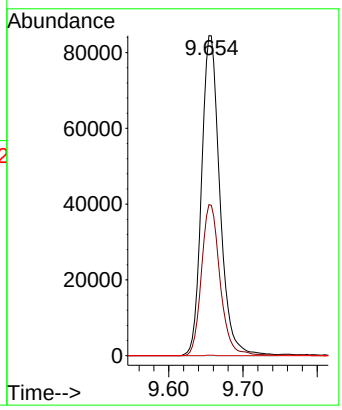


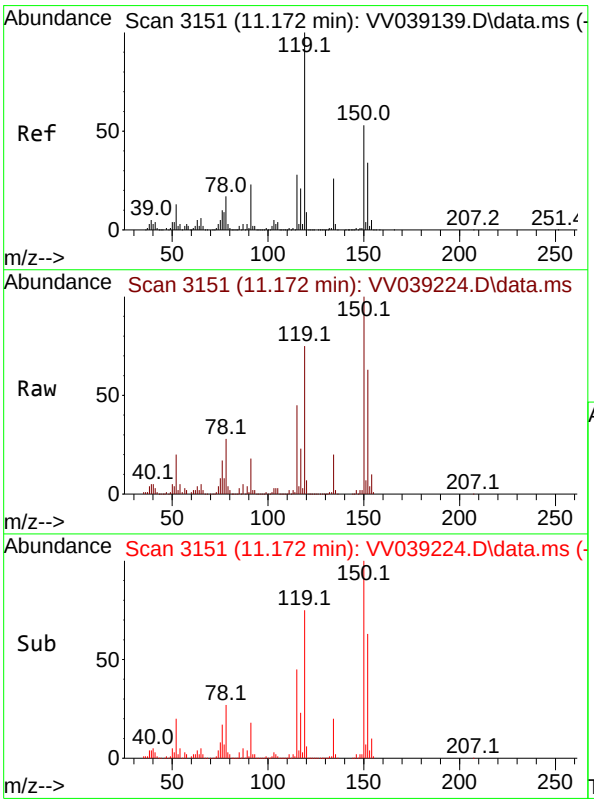
#71
Bromoform
Concen: 23.619 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:173 Resp: 144577

Ion	Ratio	Lower	Upper
173	100		
175	48.0	23.9	71.7
254	0.1	0.1	0.1#

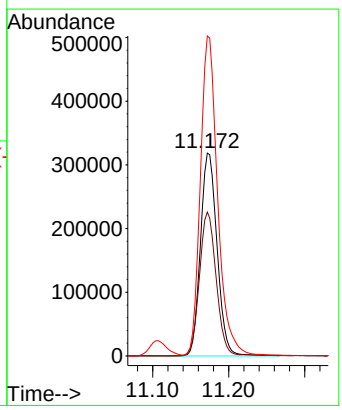


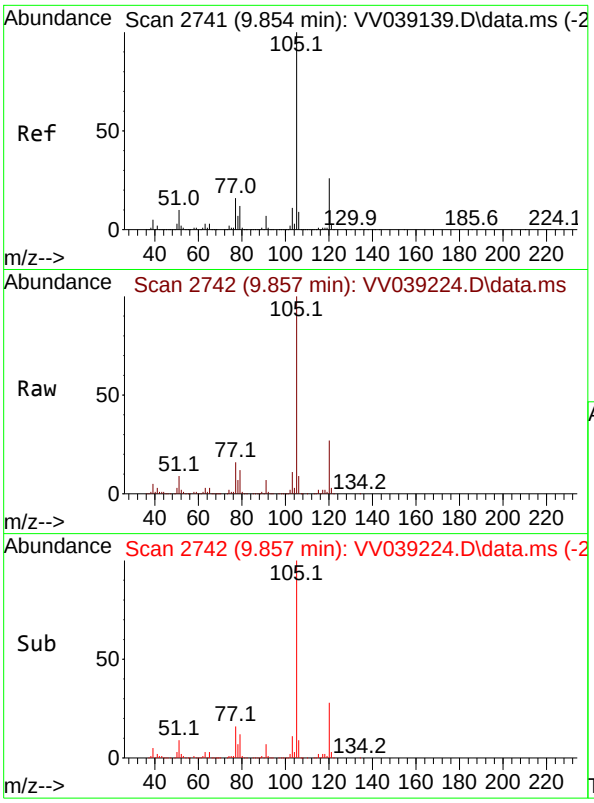


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:152 Resp: 484149

Ion	Ratio	Lower	Upper
152	100		
115	70.6	44.8	134.4
150	163.6	0.0	353.8



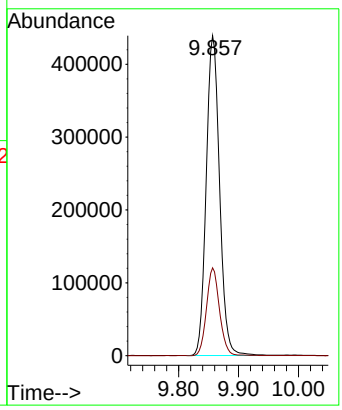


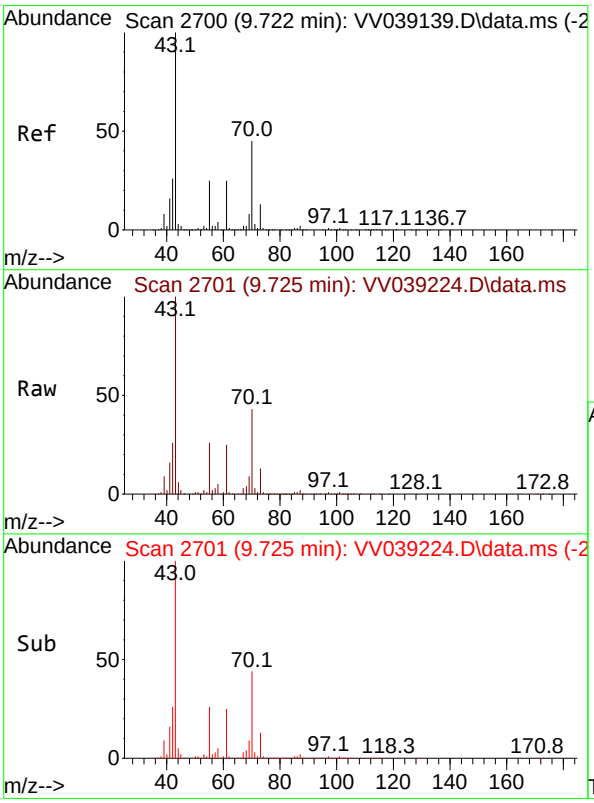
#73
Isopropylbenzene
Concen: 19.415 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:105 Resp: 681756

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.1	39.1

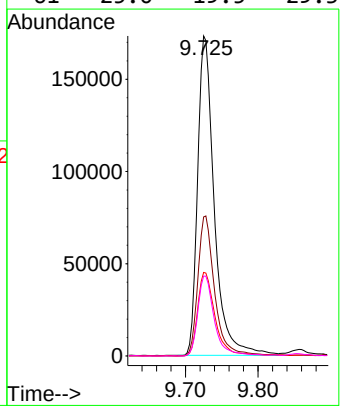


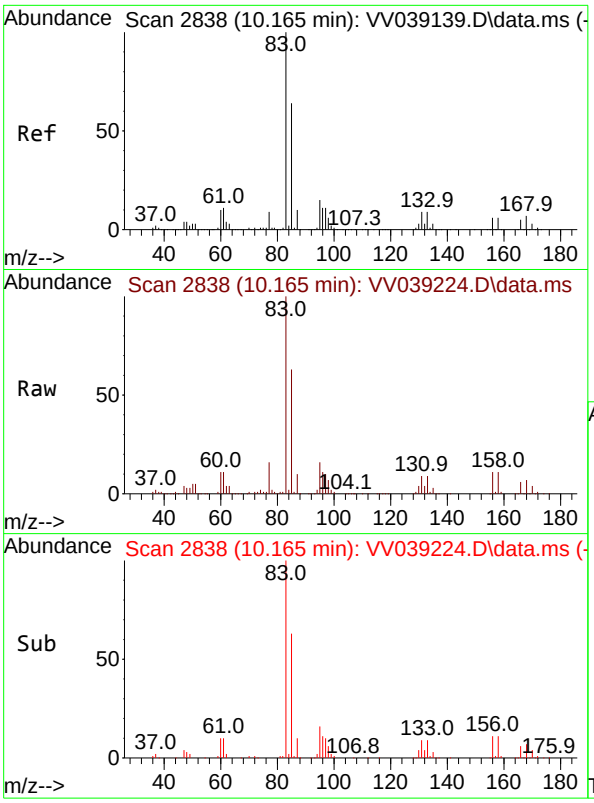


#74
N-amyl acetate
Concen: 19.780 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 43 Resp: 277055

Ion	Ratio	Lower	Upper
43	100		
70	44.3	35.4	53.0
55	27.3	20.6	30.8
61	25.0	19.5	29.3



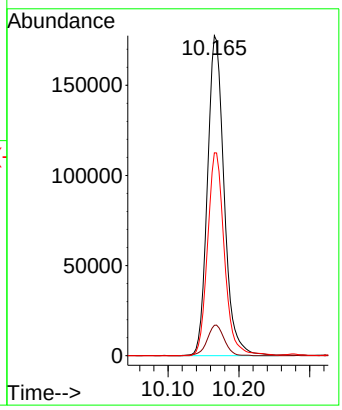


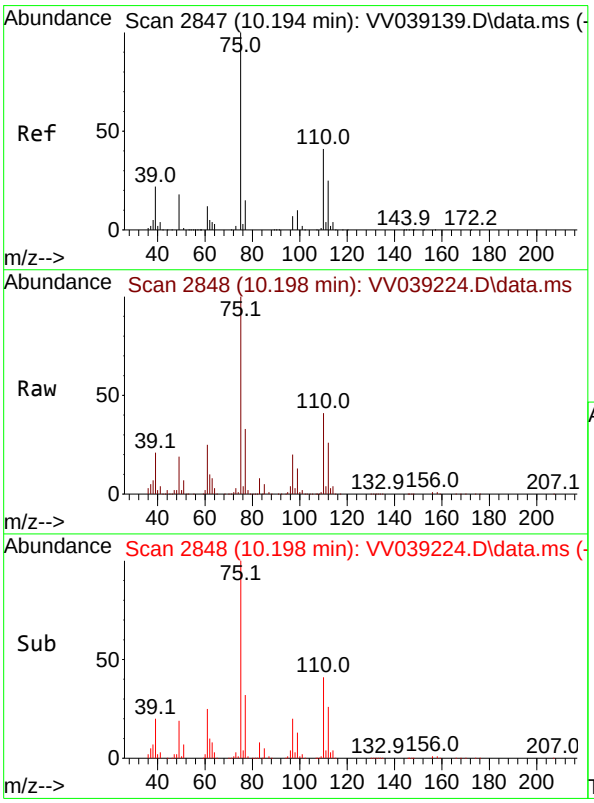
#75
1,1,2,2-Tetrachloroethane
Concen: 18.868 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 83 Resp: 290305

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.7
85	64.0	31.9	95.9

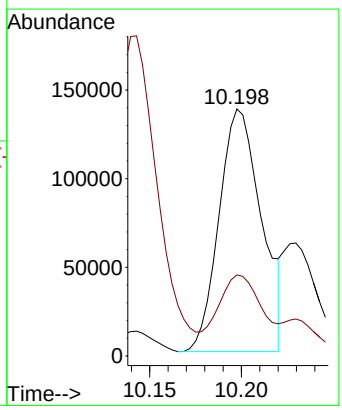


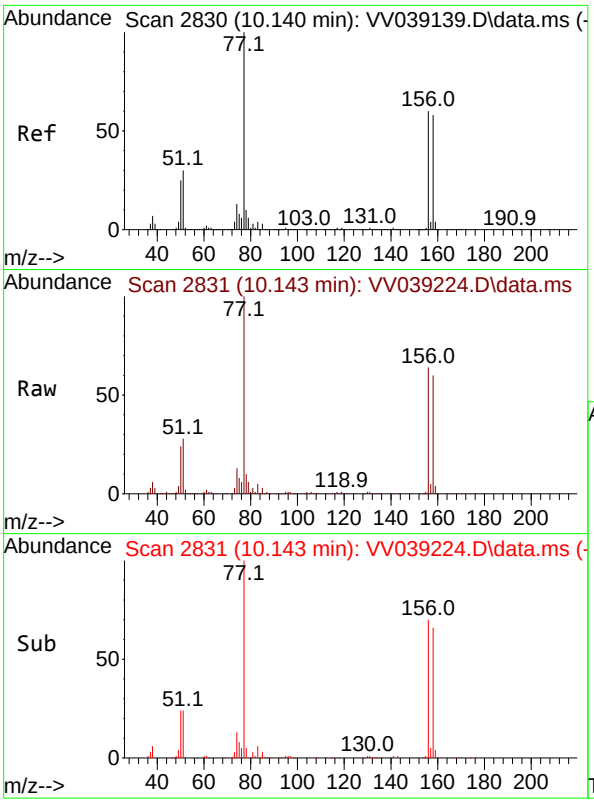


#76
1,2,3-Trichloropropane
Concen: 19.944 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 219845

Ion	Ratio	Lower	Upper
75	100		
77	20.5	11.3	33.8



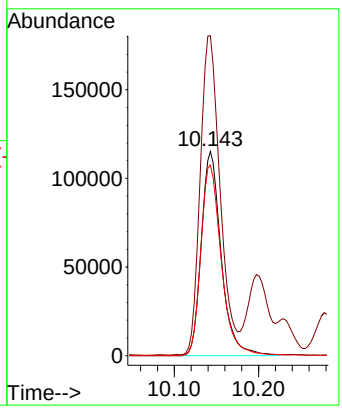


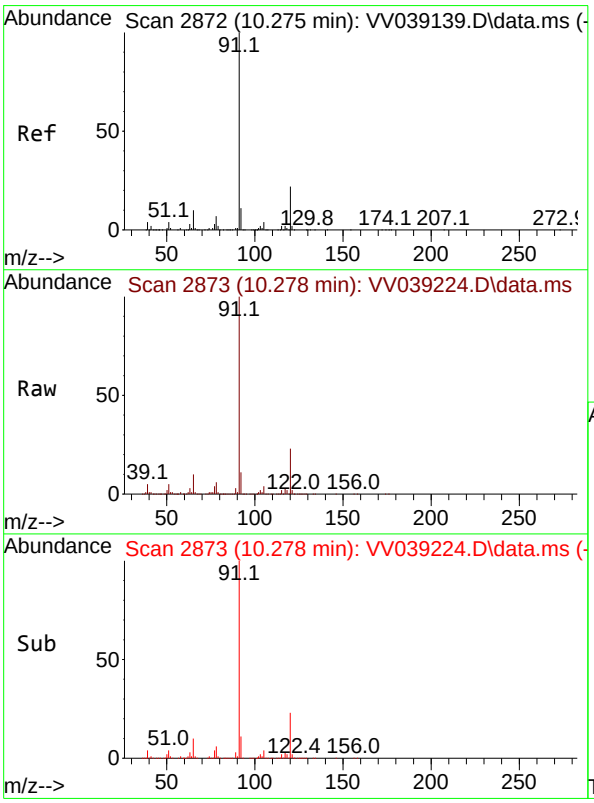
#77
Bromobenzene
Concen: 20.780 ug/l
RT: 10.143 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:156 Resp: 189322

Ion	Ratio	Lower	Upper
156	100		
77	155.3	83.4	250.1
158	95.8	48.8	146.4

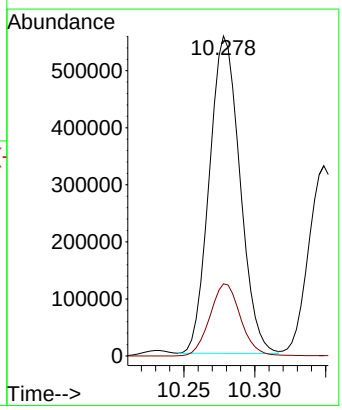


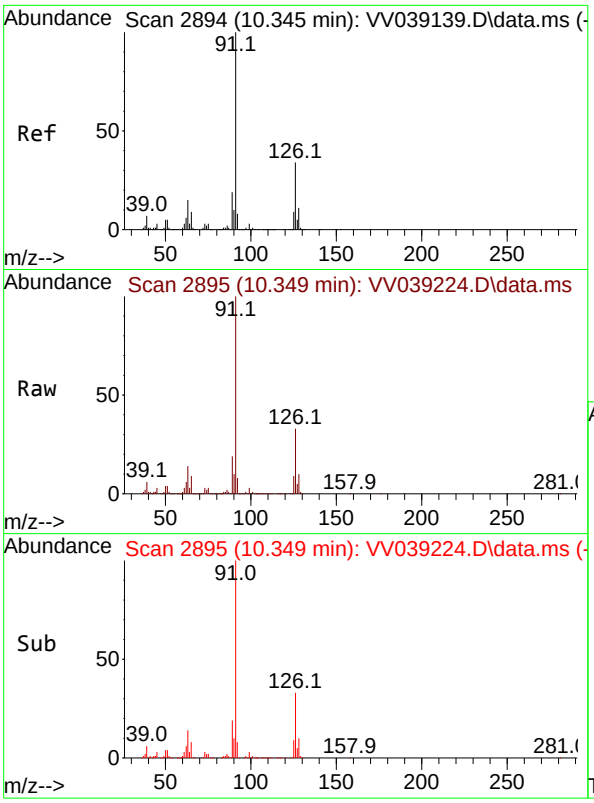


#78
n-propylbenzene
Concen: 19.562 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 91 Resp: 836516

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.1	33.3



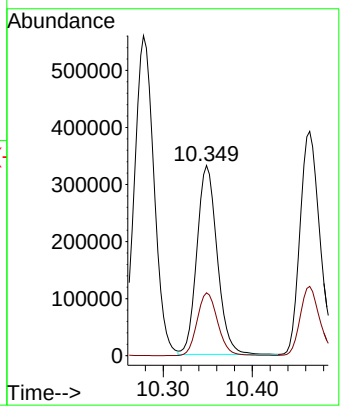


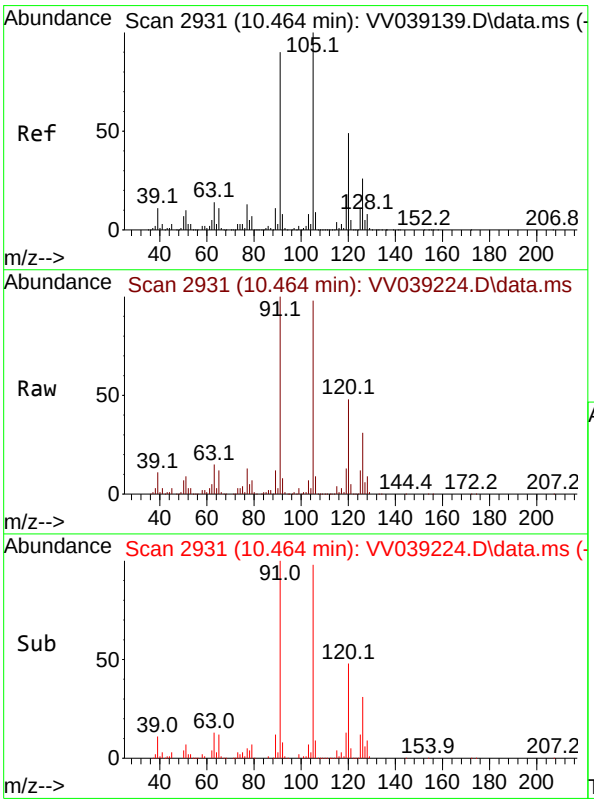
#79
2-Chlorotoluene
Concen: 20.436 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 91 Resp: 522912

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.7	50.0

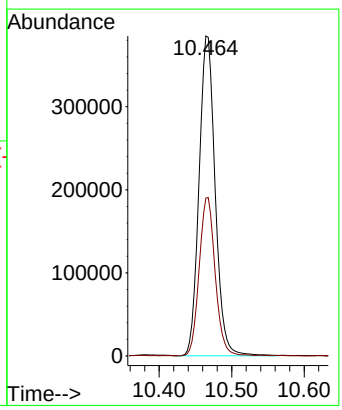


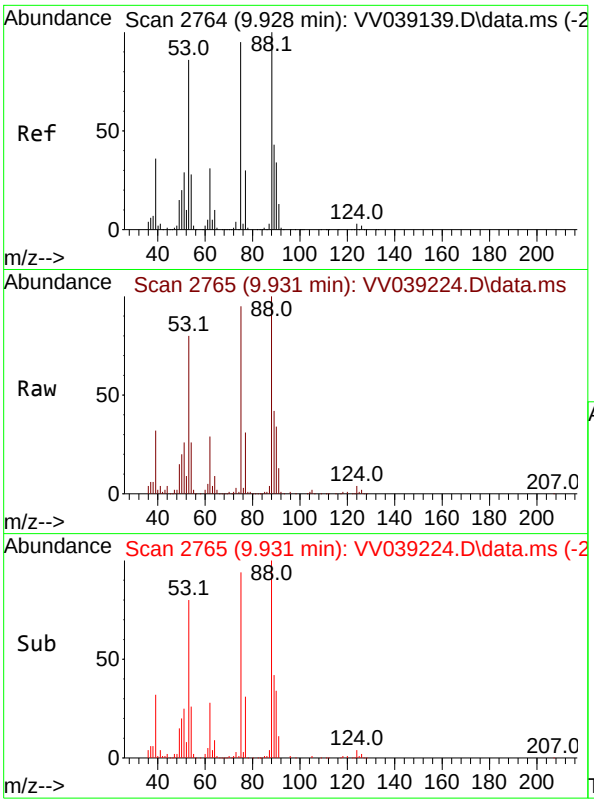


#80
1,3,5-Trimethylbenzene
Concen: 20.401 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:105 Resp: 595449

Ion	Ratio	Lower	Upper
105	100		
120	49.0	24.3	72.8



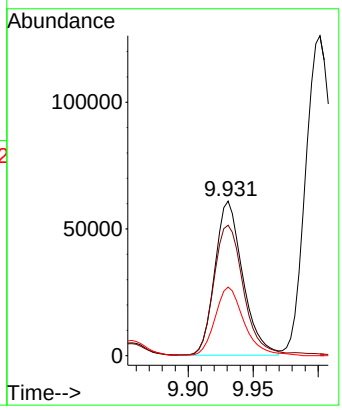


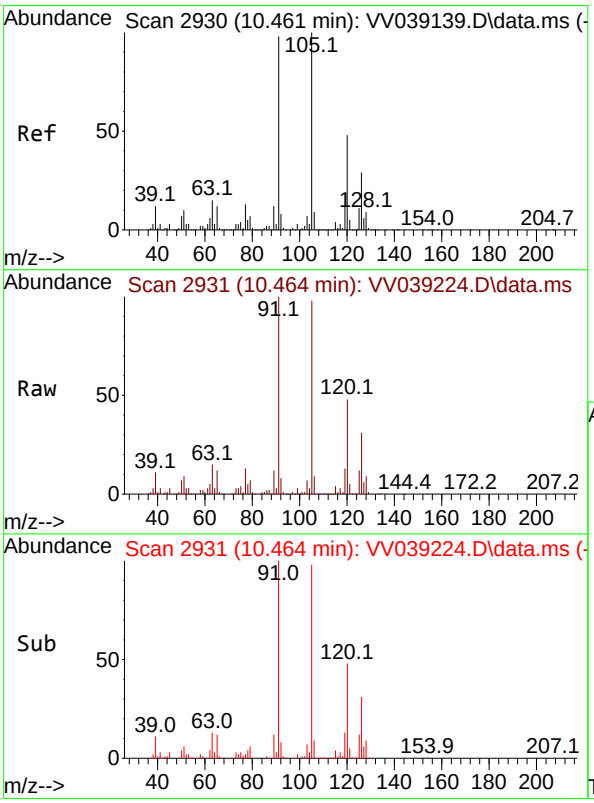
#81
trans-1,4-Dichloro-2-butene
Concen: 19.795 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 75 Resp: 90895

Ion	Ratio	Lower	Upper
75	100		
53	88.2	72.5	108.7
89	46.5	37.2	55.8

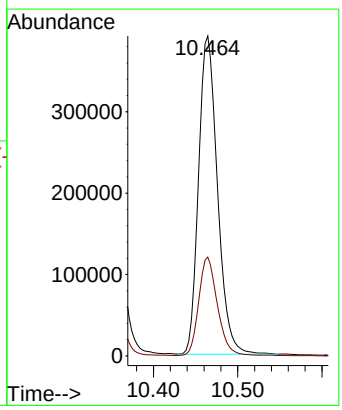


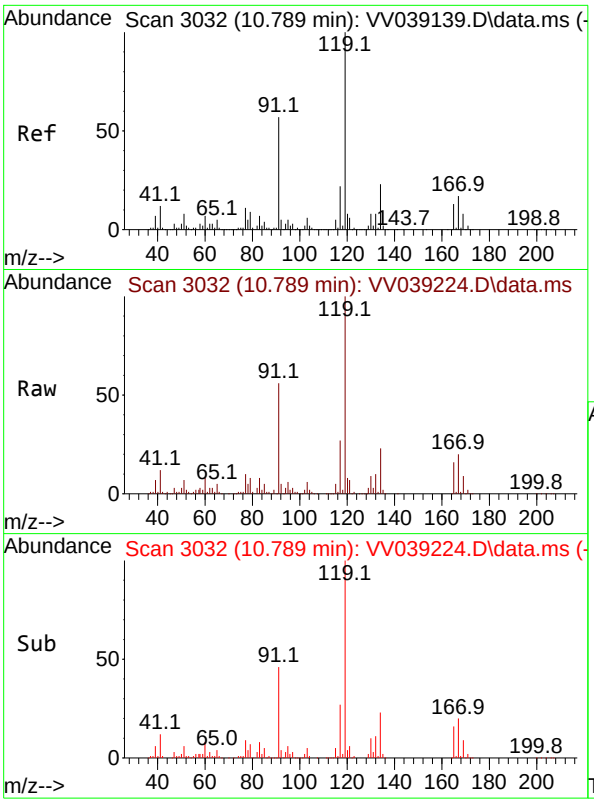


#82
4-Chlorotoluene
Concen: 20.558 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 91 Resp: 609979

Ion	Ratio	Lower	Upper
91	100		
126	30.4	14.5	43.6



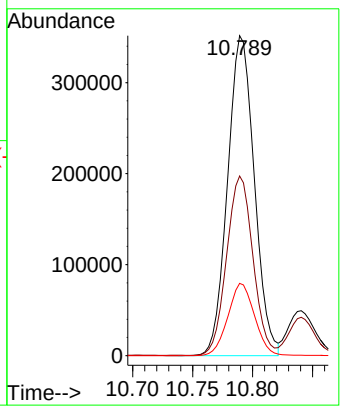


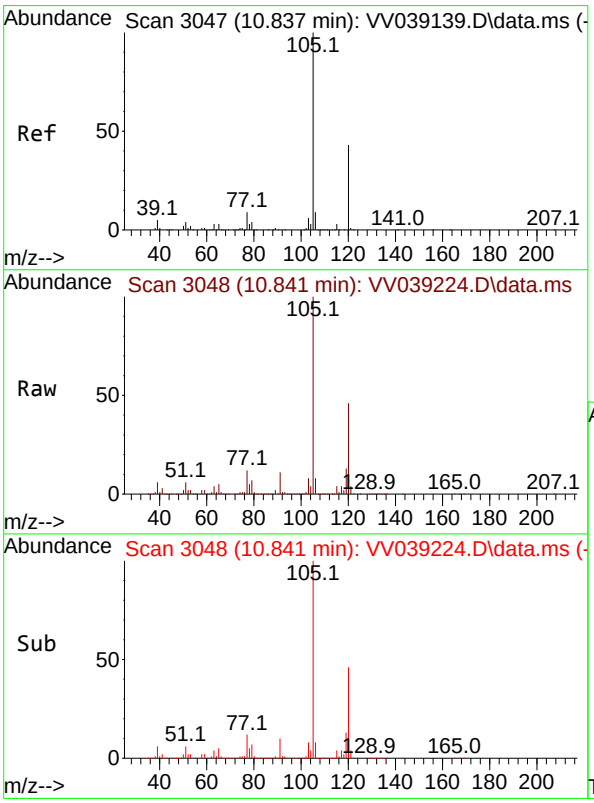
#83
tert-Butylbenzene
Concen: 18.788 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:119 Resp: 546815

Ion	Ratio	Lower	Upper
119	100		
91	55.0	28.5	85.6
134	22.7	11.5	34.4

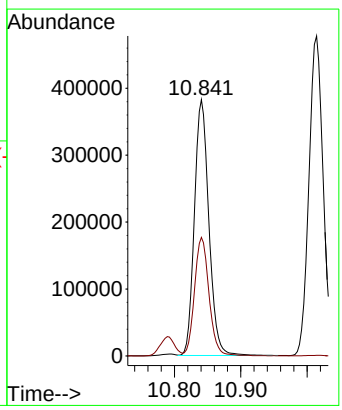


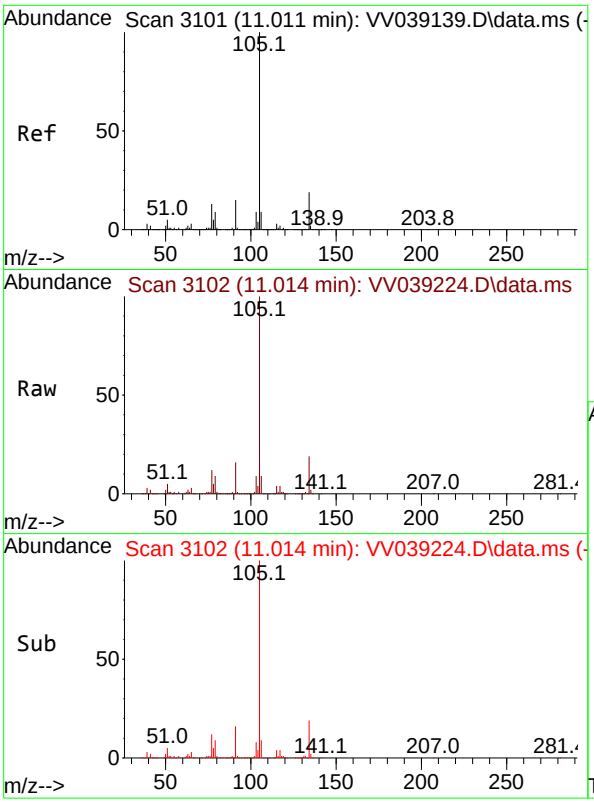


#84
1,2,4-Trimethylbenzene
Concen: 20.450 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:105 Resp: 579472

Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.4	67.2



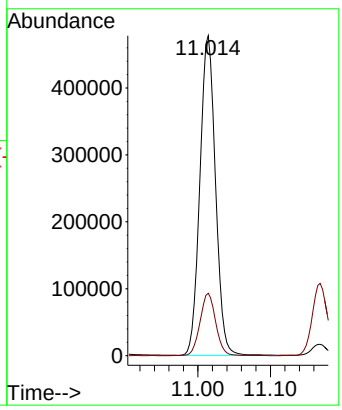


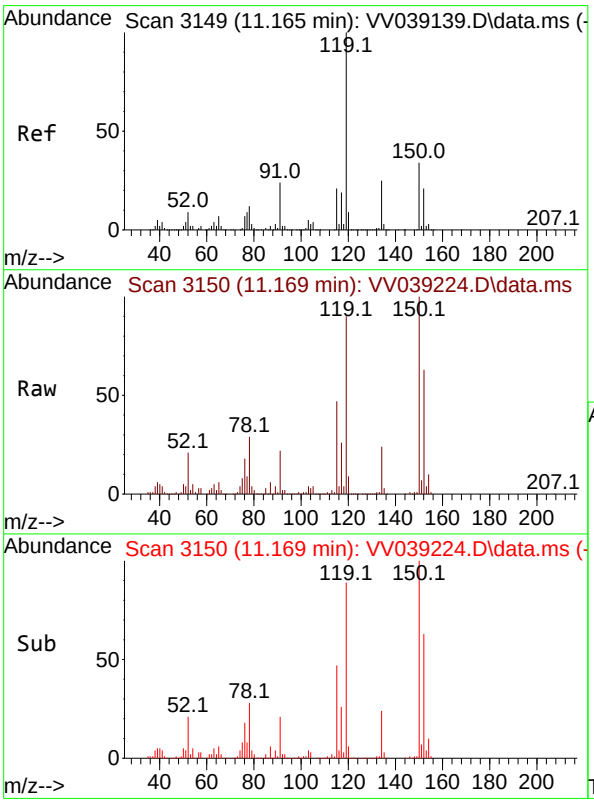
#85
sec-Butylbenzene
Concen: 18.482 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:105 Resp: 713481

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.6	28.8

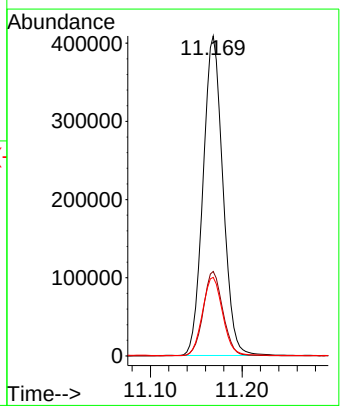


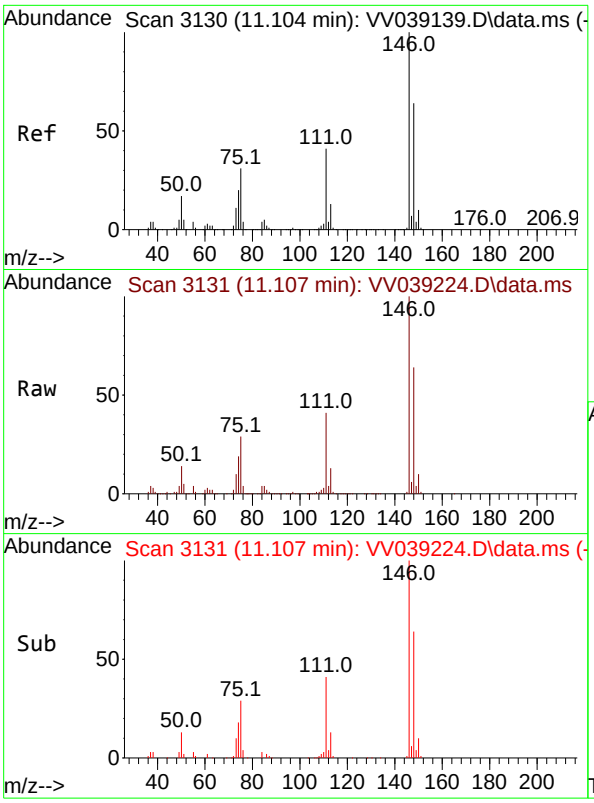


#86
p-Isopropyltoluene
Concen: 19.064 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:119 Resp: 612533

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.7	38.0
91	24.9	12.0	36.1



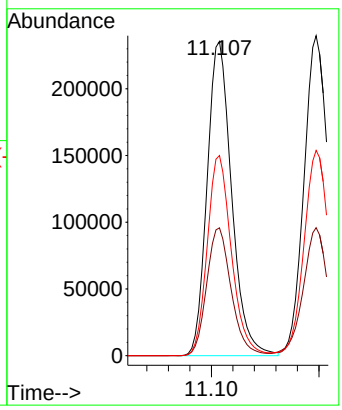


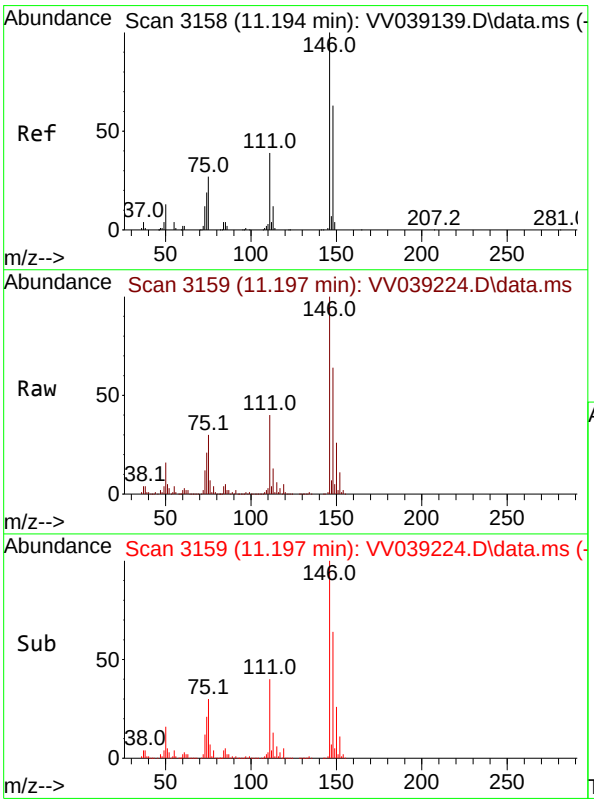
#87
1,3-Dichlorobenzene
Concen: 20.236 ug/l
RT: 11.107 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:146 Resp: 373130

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.9	62.8
148	62.8	31.8	95.3

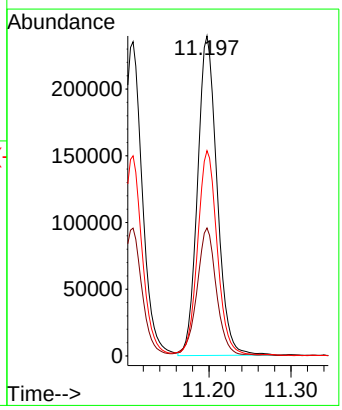


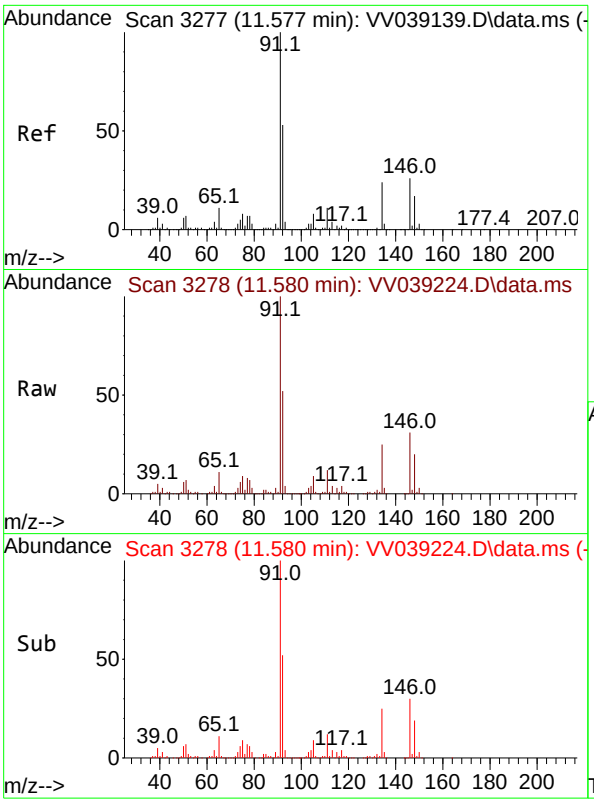


#88
1,4-Dichlorobenzene
Concen: 19.565 ug/l
RT: 11.197 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:146 Resp: 395788

Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.3	60.8
148	65.1	31.4	94.2



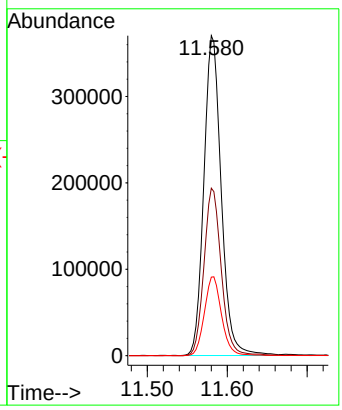


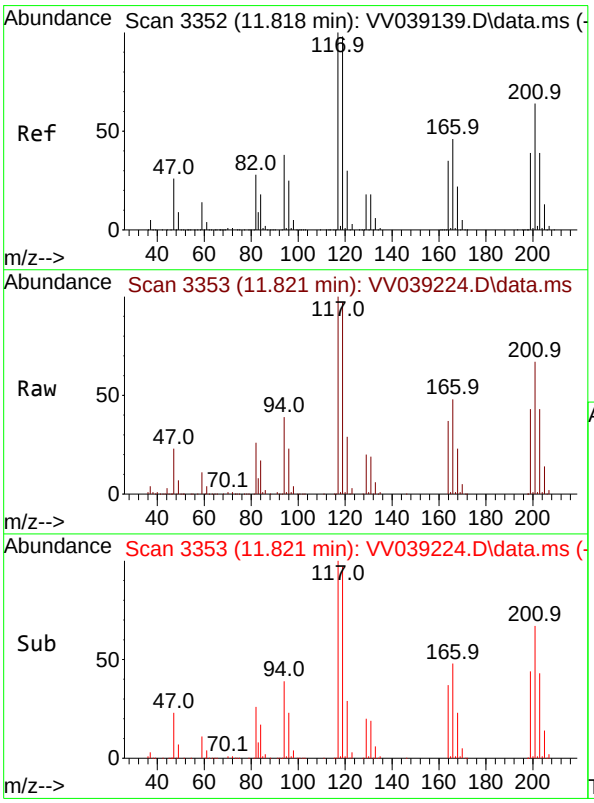
#89
n-Butylbenzene
Concen: 18.282 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion: 91 Resp: 560984

Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.8
134	24.4	12.1	36.3

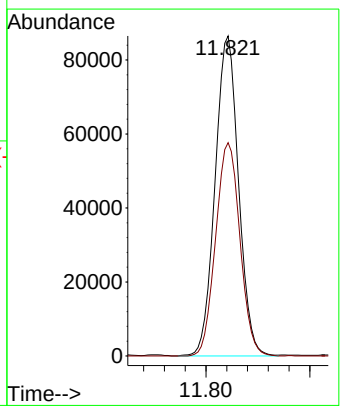


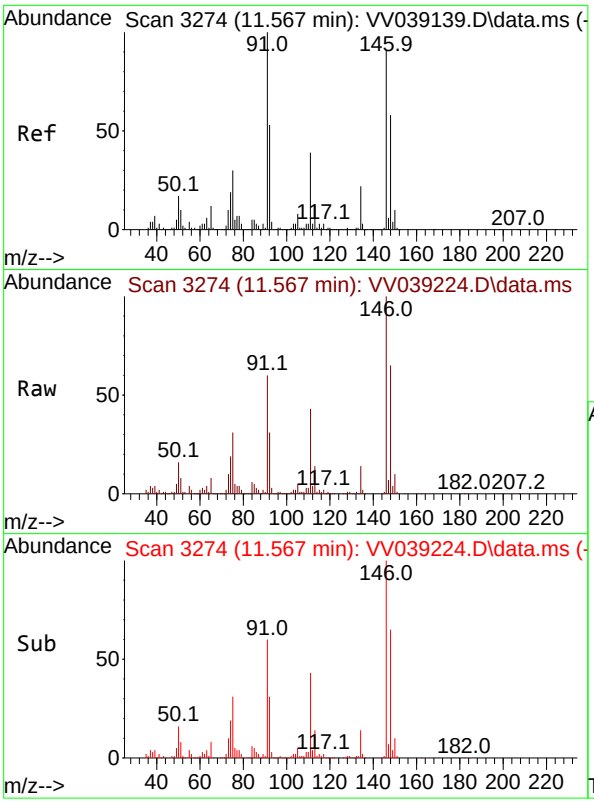


#90
Hexachloroethane
Concen: 17.141 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:117 Resp: 135620

Ion	Ratio	Lower	Upper
117	100		
201	69.0	32.3	96.8



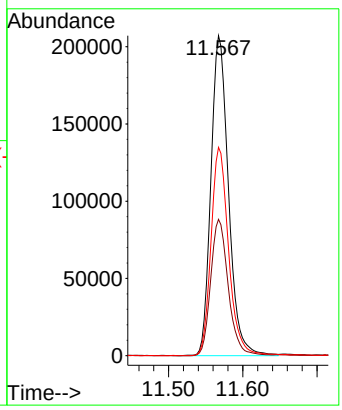


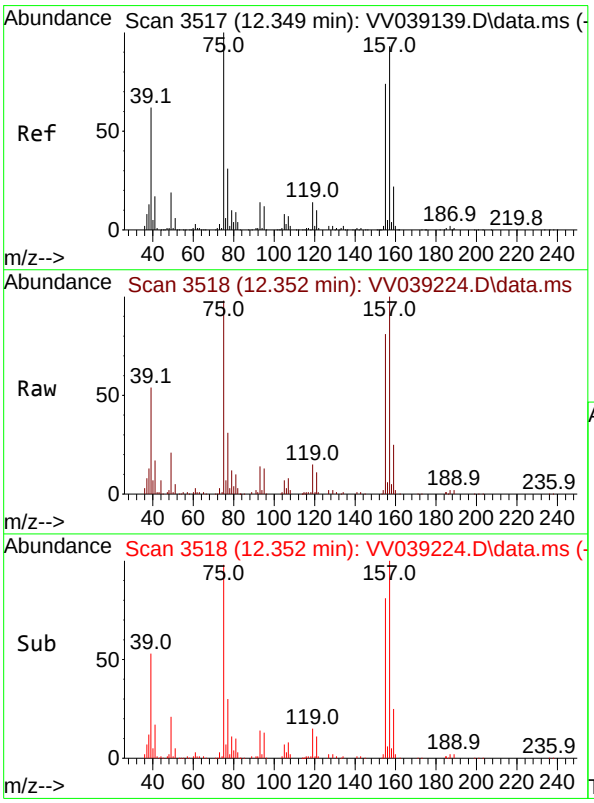
#91
1,2-Dichlorobenzene
Concen: 19.740 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:146 Resp: 340057

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.5	64.5
148	65.5	31.9	95.7

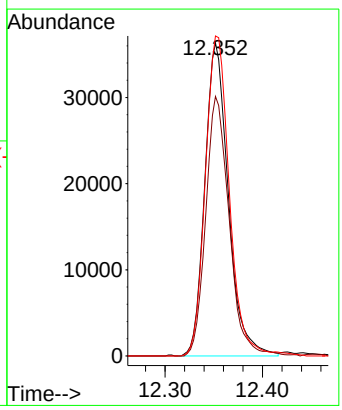


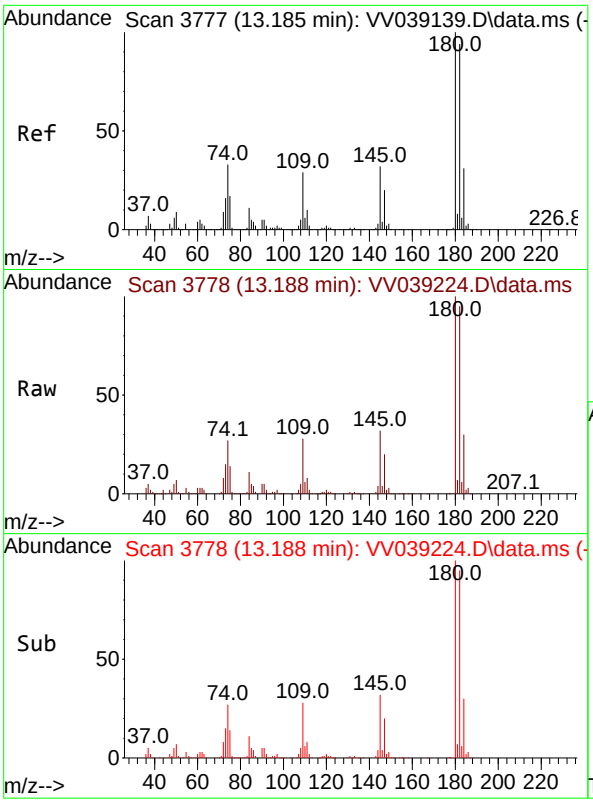


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.277 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 60941

Ion	Ratio	Lower	Upper
75	100		
155	82.4	38.6	115.8
157	104.8	49.5	148.3



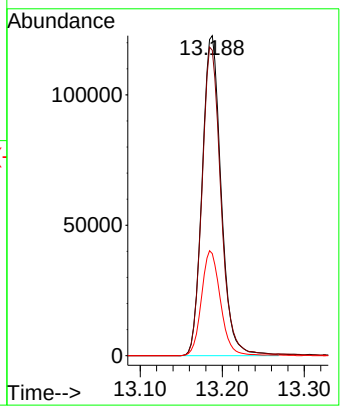


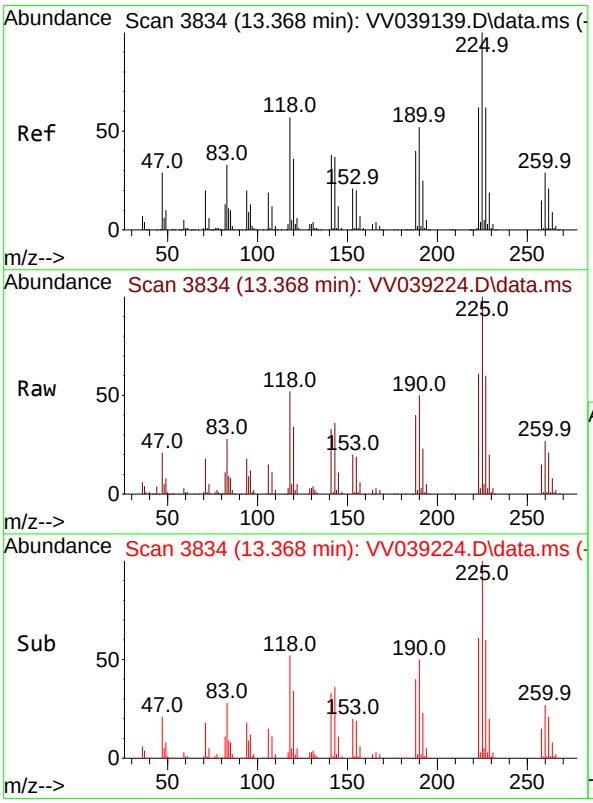
#93
1,2,4-Trichlorobenzene
Concen: 19.964 ug/l
RT: 13.188 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:180 Resp: 197145

Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.1	141.4
145	33.0	16.3	48.8

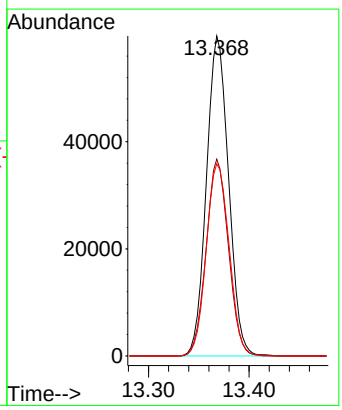


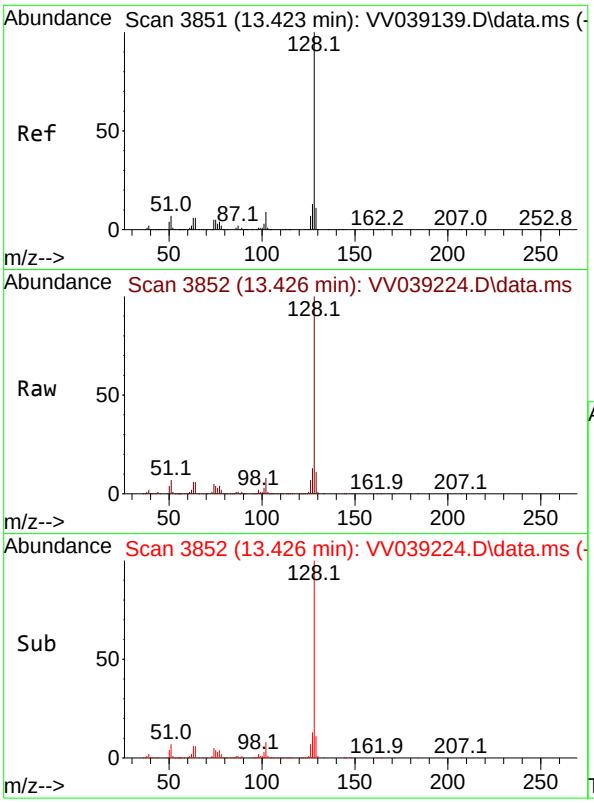


#94
Hexachlorobutadiene
Concen: 17.798 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:225 Resp: 91322

Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.6	94.7
227	62.1	31.8	95.4



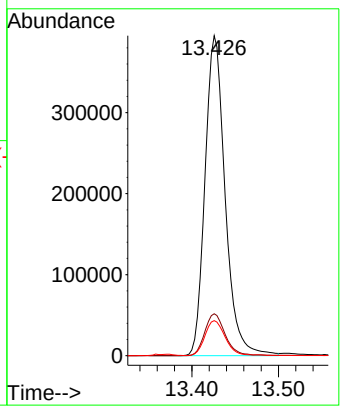


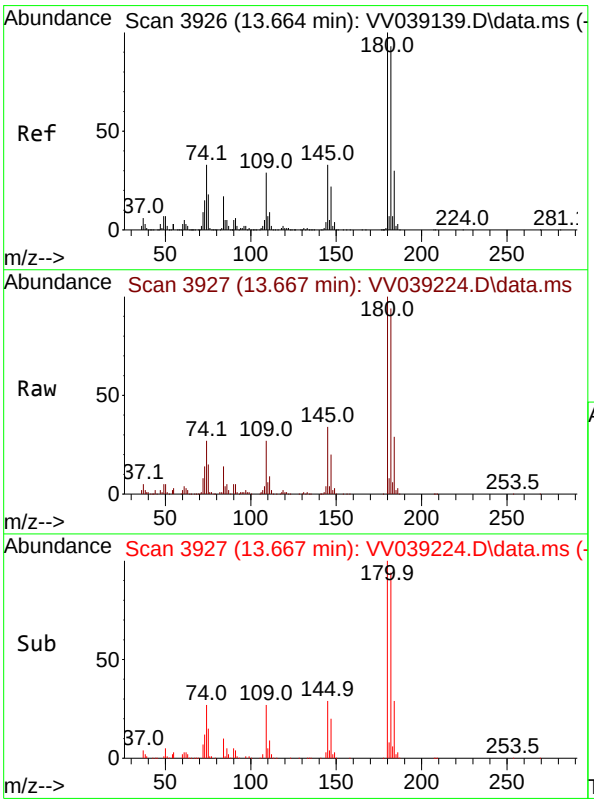
#95
Naphthalene
Concen: 20.005 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Instrument :
MSVOA_V
ClientSampleId :
VV0929WBS01

Tgt Ion:128 Resp: 638517

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	10.9	8.6	13.0

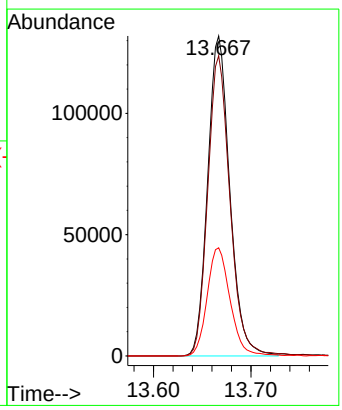




#96
1,2,3-Trichlorobenzene
Concen: 20.628 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:180 Resp: 208339

Ion	Ratio	Lower	Upper
180	100		
182	94.7	46.9	140.8
145	35.1	17.0	51.0



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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725MS	SDG No.:	Q3195
Lab Sample ID:	Q3195-20MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039237.D	1	09/29/25 17:15	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	49.4		0.22	1.00	ug/L
74-87-3	Chloromethane	43.1		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	45.0		0.26	1.00	ug/L
74-83-9	Bromomethane	44.9		1.40	5.00	ug/L
75-00-3	Chloroethane	49.0		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	47.9		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	49.5		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	48.7		0.23	1.00	ug/L
67-64-1	Acetone	200		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	42.1		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	49.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	52.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	54.1		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	48.3		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	46.1		0.23	1.00	ug/L
110-82-7	Cyclohexane	40.7		1.50	5.00	ug/L
78-93-3	2-Butanone	240		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	52.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.1		0.19	1.00	ug/L
74-97-5	Bromochloromethane	47.9		0.22	1.00	ug/L
67-66-3	Chloroform	46.4		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	46.6		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	49.1		0.16	1.00	ug/L
71-43-2	Benzene	53.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	51.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	63.2		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	55.8		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	53.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	300		0.68	5.00	ug/L
108-88-3	Toluene	58.6		0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725MS	SDG No.:	Q3195
Lab Sample ID:	Q3195-20MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039237.D	1	09/29/25 17:15	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	57.0		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	51.7		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	55.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	280		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	57.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	58.7		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	55.4		0.23	1.00	ug/L
108-90-7	Chlorobenzene	53.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	58.4		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	120		0.24	2.00	ug/L
95-47-6	o-Xylene	62.1		0.12	1.00	ug/L
100-42-5	Styrene	55.9		0.15	1.00	ug/L
75-25-2	Bromoform	60.7		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	52.4		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	46.5		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	51.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	49.3		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	50.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	53.6		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.8		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	53.4		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.7		74 - 125	83%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	49.3		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.1		77 - 121	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	494000	4.6			
540-36-3	1,4-Difluorobenzene	723000	5.532			
3114-55-4	Chlorobenzene-d5	718000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	464000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725MS	SDG No.:	Q3195
Lab Sample ID:	Q3195-20MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039237.D	1	09/29/25 17:15	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	494074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	722914	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	717971	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	463779	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	298046	41.681	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 83.360%			
35) Dibromofluoromethane	4.500	113	300465	51.701	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 103.400%			
50) Toluene-d8	7.236	98	841006	49.271	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 98.540%			
62) 4-Bromofluorobenzene	10.001	95	400996	57.067	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 114.140%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	386406	49.405	ug/l	97
3) Chloromethane	1.227	50	362092	43.126	ug/l	98
4) Vinyl Chloride	1.294	62	404425	44.993	ug/l	100
5) Bromomethane	1.494	94	254510	44.915	ug/l	98
6) Chloroethane	1.558	64	259641	48.990	ug/l	96
7) Trichlorofluoromethane	1.725	101	623183	47.886	ug/l	99
8) Diethyl Ether	1.918	74	236336	48.918	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.079	101	383628	49.543	ug/l	97
10) Methyl Iodide	2.195	142	398316	54.016	ug/l	99
11) Tert butyl alcohol	2.571	59	419483	277.559	ug/l	100
12) 1,1-Dichloroethene	2.082	96	362747	48.695	ug/l	91
13) Acrolein	2.011	56	54873	209.242	ug/l	93
14) Allyl chloride	2.355	41	606456	45.576	ug/l	96
15) Acrylonitrile	2.674	53	1178223	243.193	ug/l	99
16) Acetone	2.117	43	904116	201.215	ug/l	97
17) Carbon Disulfide	2.253	76	959826	42.130	ug/l	99
18) Methyl Acetate	2.378	43	556007	52.479	ug/l	96
19) Methyl tert-butyl Ether	2.712	73	1182602	49.820	ug/l	100
20) Methylene Chloride	2.455	84	415757	54.112	ug/l	94
21) trans-1,2-Dichloroethene	2.699	96	383354	48.340	ug/l	96
22) Diisopropyl ether	3.217	45	1178542	46.291	ug/l	98
23) Vinyl Acetate	3.188	43	5180952	232.628	ug/l	97
24) 1,1-Dichloroethane	3.117	63	718406	46.143	ug/l	98
25) 2-Butanone	3.867	43	1387581	242.327	ug/l	98
26) 2,2-Dichloropropane	3.812	77	552601	40.030	ug/l	98
27) cis-1,2-Dichloroethene	3.818	96	438015	50.080	ug/l	94
28) Bromochloromethane	4.146	49	328927	47.856	ug/l	87
29) Tetrahydrofuran	4.236	42	930513	259.623	ug/l	96
30) Chloroform	4.278	83	754498	46.409	ug/l	98
31) Cyclohexane	4.584	56	519580	40.739	ug/l	97
32) 1,1,1-Trichloroethane	4.513	97	656518	46.645	ug/l	98
36) 1,1-Dichloropropene	4.744	75	455596	51.851	ug/l	98
37) Ethyl Acetate	3.979	43	533392	50.028	ug/l	98
38) Carbon Tetrachloride	4.735	117	561360	52.275	ug/l	99
39) Methylcyclohexane	6.047	83	521023	49.102	ug/l	96
40) Benzene	5.008	78	1522784	53.221	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.159	41	251054	52.000	ug/l		95
42) 1,2-Dichloroethane	5.040	62	516822	51.551	ug/l		98
43) Isopropyl Acetate	5.195	43	803487	55.271	ug/l		98
44) Trichloroethene	5.831	130	417556	63.243	ug/l		99
45) 1,2-Dichloropropane	6.088	63	396539	55.758	ug/l		98
46) Dibromomethane	6.223	93	300681	55.239	ug/l		93
47) Bromodichloromethane	6.426	83	600401	53.355	ug/l		98
48) Methyl methacrylate	6.294	41	389168	59.056	ug/l		96
49) 1,4-Dioxane	6.291	88	134567	1265.383	ug/l		97
51) 4-Methyl-2-Pentanone	7.149	43	2899248	303.149	ug/l		97
52) Toluene	7.307	92	971887	58.584	ug/l		98
53) t-1,3-Dichloropropene	7.574	75	559095	57.011	ug/l		99
54) cis-1,3-Dichloropropene	6.947	75	559990	51.725	ug/l		98
55) 1,1,2-Trichloroethane	7.760	97	414549	55.730	ug/l		97
56) Ethyl methacrylate	7.715	69	562462	63.672	ug/l		95
57) 1,3-Dichloropropane	7.934	76	653401	55.659	ug/l		99
59) 2-Hexanone	8.063	43	2190138	283.389	ug/l		98
60) Dibromochloromethane	8.169	129	487809	57.553	ug/l		98
61) 1,2-Dibromoethane	8.272	107	446765	58.729	ug/l		100
64) Tetrachloroethene	7.895	164	333065	55.385	ug/l		98
65) Chlorobenzene	8.805	112	1072211	53.614	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.899	131	401399	55.549	ug/l		99
67) Ethyl Benzene	8.937	91	1767918	58.400	ug/l		99
68) m/p-Xylenes	9.063	106	1454532	124.490	ug/l		98
69) o-Xylene	9.468	106	642334	62.089	ug/l		97
70) Styrene	9.484	104	1227294	55.861	ug/l		99
71) Bromoform	9.654	173	342488	60.678	ug/l	#	98
73) Isopropylbenzene	9.857	105	1762396	52.393	ug/l		100
74) N-amyl acetate	9.725	43	731113	54.489	ug/l		97
75) 1,1,2,2-Tetrachloroethane	10.165	83	685568	46.515	ug/l		99
76) 1,2,3-Trichloropropane	10.198	75	515358	48.805	ug/l		99
77) Bromobenzene	10.140	156	449861	51.546	ug/l		97
78) n-propylbenzene	10.278	91	2135598	52.135	ug/l		98
79) 2-Chlorotoluene	10.349	91	1296224	52.883	ug/l		100
80) 1,3,5-Trimethylbenzene	10.464	105	1521131	54.405	ug/l		99
81) trans-1,4-Dichloro-2-b...	9.927	75	224319	50.999	ug/l		98
82) 4-Chlorotoluene	10.461	91	1550297	54.545	ug/l		98
83) tert-Butylbenzene	10.789	119	1432871	51.394	ug/l		98
84) 1,2,4-Trimethylbenzene	10.837	105	1522222	56.079	ug/l		99
85) sec-Butylbenzene	11.011	105	1837748	49.697	ug/l		99
86) p-Isopropyltoluene	11.165	119	1565969	50.879	ug/l		99
87) 1,3-Dichlorobenzene	11.104	146	906378	51.316	ug/l		99
88) 1,4-Dichlorobenzene	11.198	146	954552	49.260	ug/l		99
89) n-Butylbenzene	11.580	91	1461115	49.707	ug/l		99
90) Hexachloroethane	11.821	117	325035	42.885	ug/l		95
91) 1,2-Dichlorobenzene	11.567	146	839410	50.867	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.349	75	142548	53.576	ug/l		92
93) 1,2,4-Trichlorobenzene	13.185	180	499193	52.772	ug/l		100
94) Hexachlorobutadiene	13.368	225	200469	40.785	ug/l		100
95) Naphthalene	13.422	128	1820572	59.545	ug/l		99
96) 1,2,3-Trichlorobenzene	13.667	180	516977	53.435	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

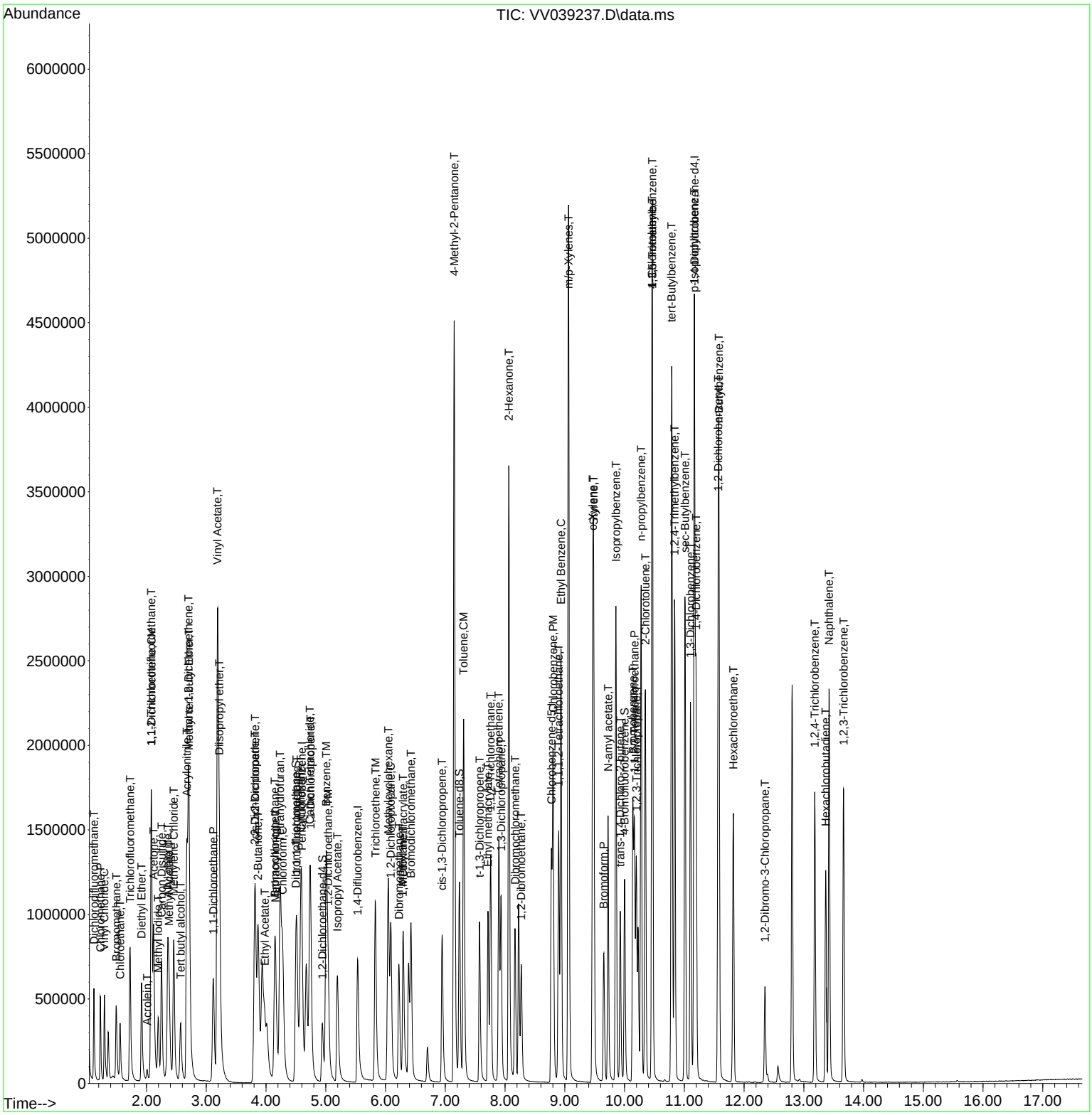
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

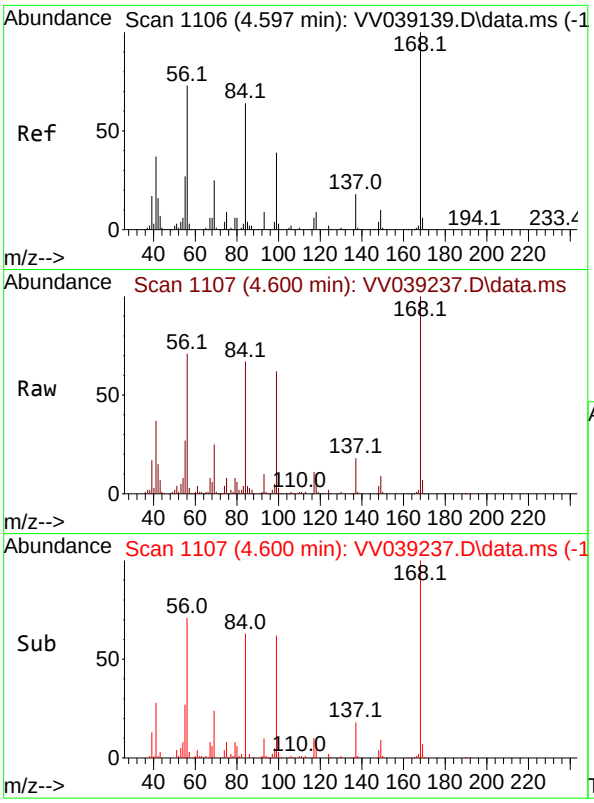
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



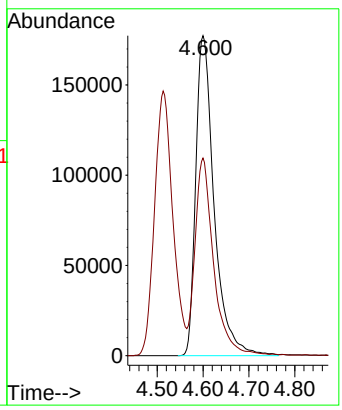


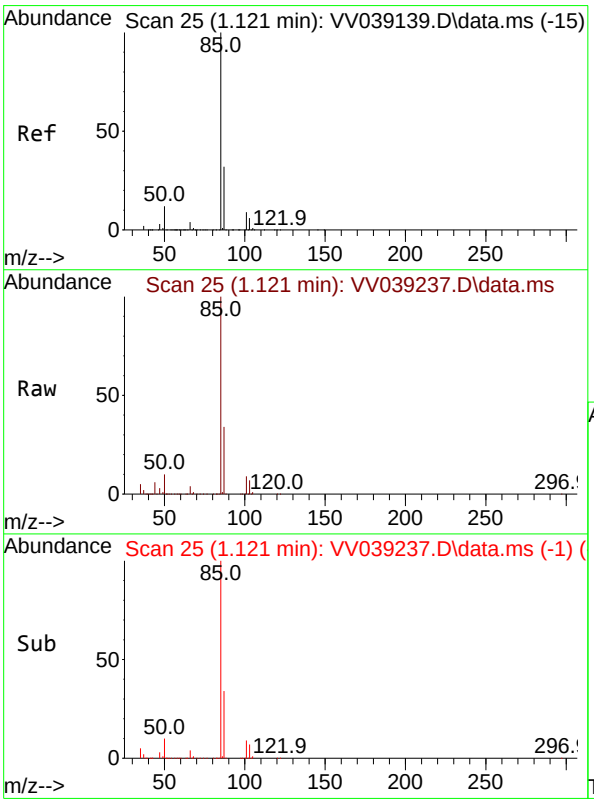
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:168 Resp: 494074

Ion	Ratio	Lower	Upper
168	100		
99	61.4	49.6	74.4

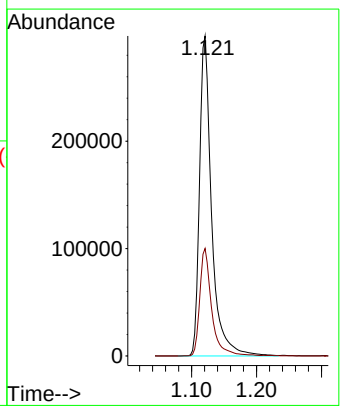


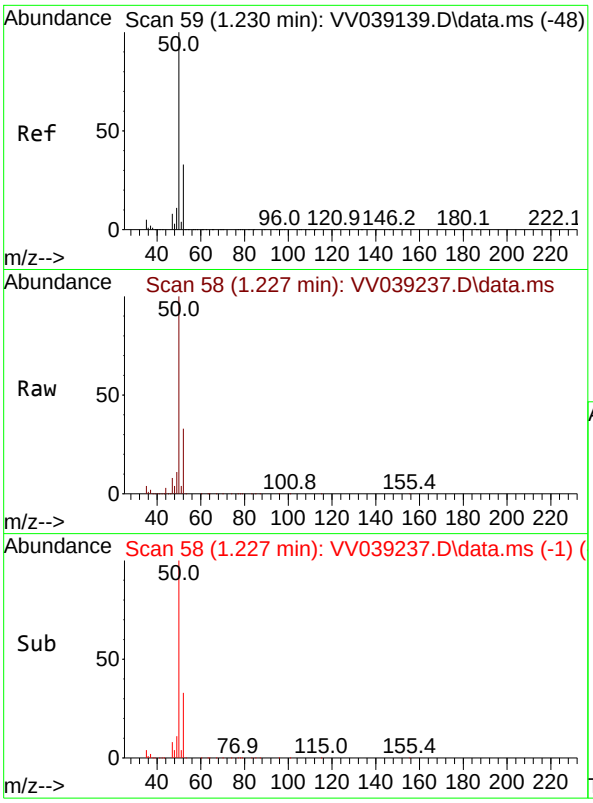


#2
Dichlorodifluoromethane
Concen: 49.405 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 85 Resp: 386406

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.0	47.9



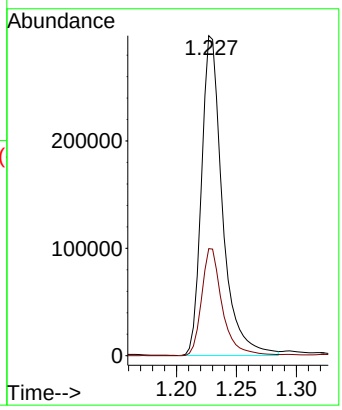


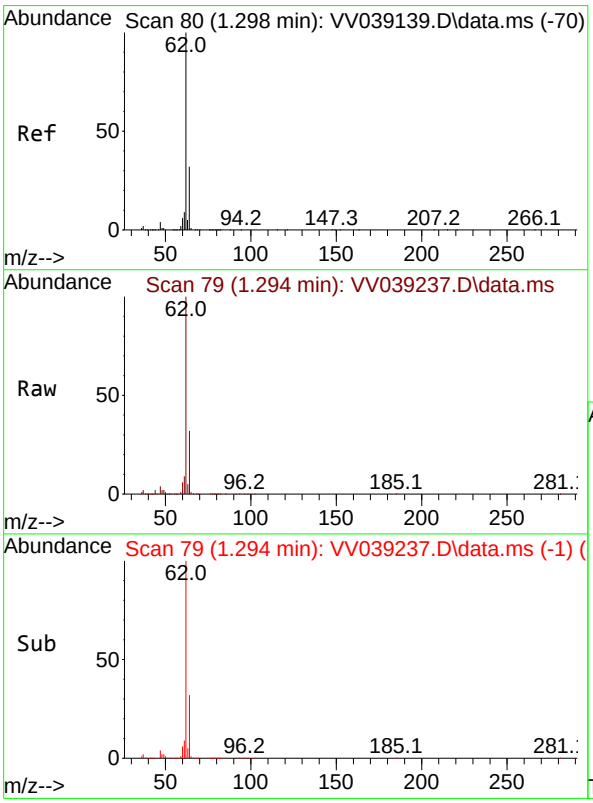
#3
Chloromethane
Concen: 43.126 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 50 Resp: 362092

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.0	39.0

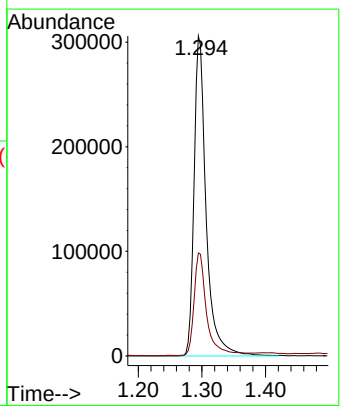


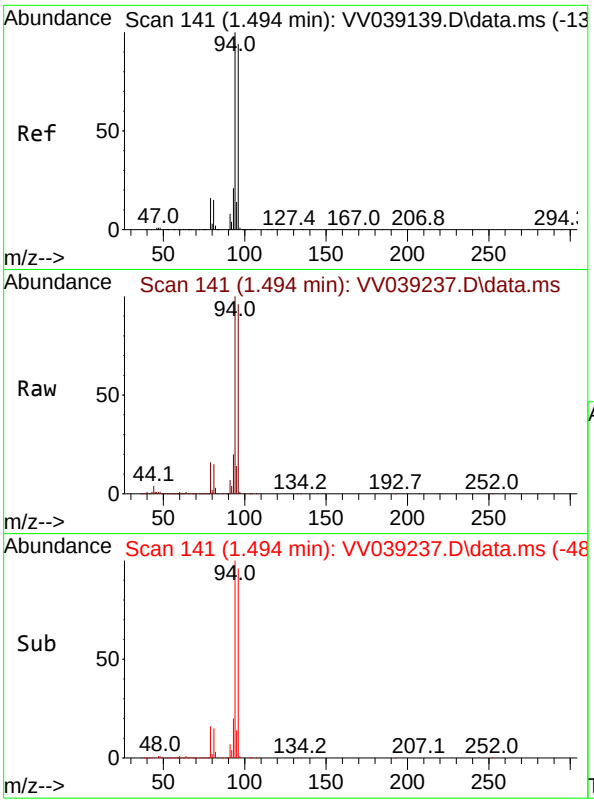


#4
Vinyl Chloride
Concen: 44.993 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 62 Resp: 404425

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.6	38.4



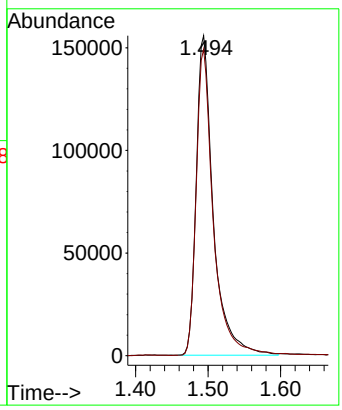


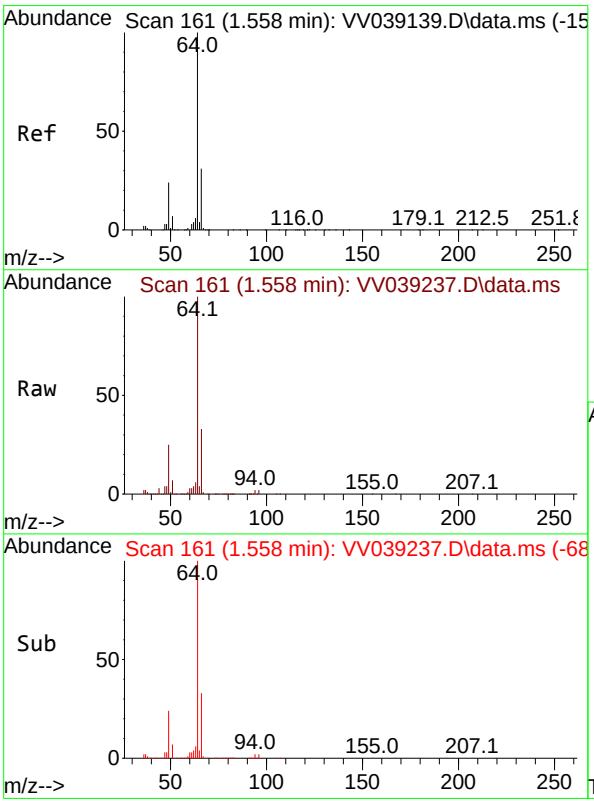
#5
Bromomethane
Concen: 44.915 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 94 Resp: 254510

Ion	Ratio	Lower	Upper
94	100		
96	95.8	74.9	112.3

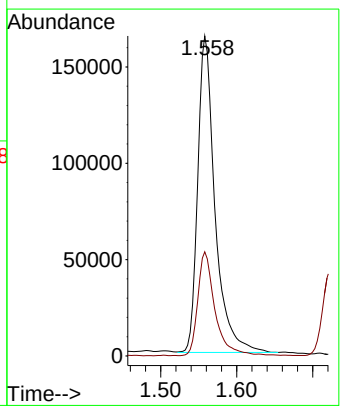


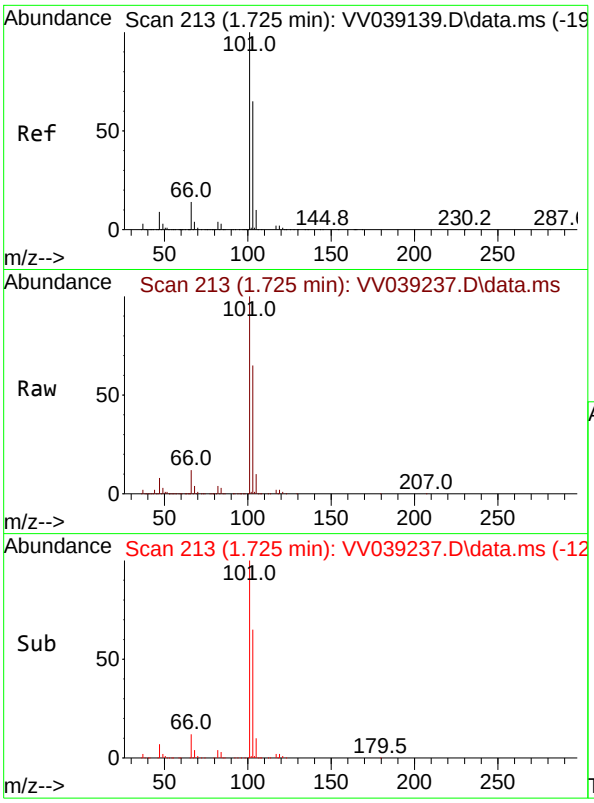


#6
Chloroethane
Concen: 48.990 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 64 Resp: 259641

Ion	Ratio	Lower	Upper
64	100		
66	32.8	24.6	36.8



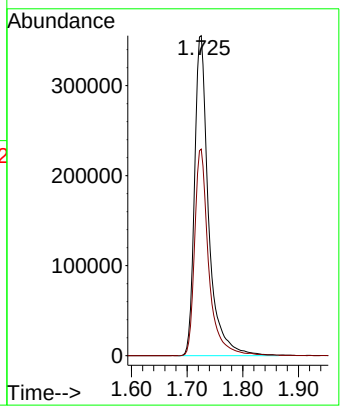


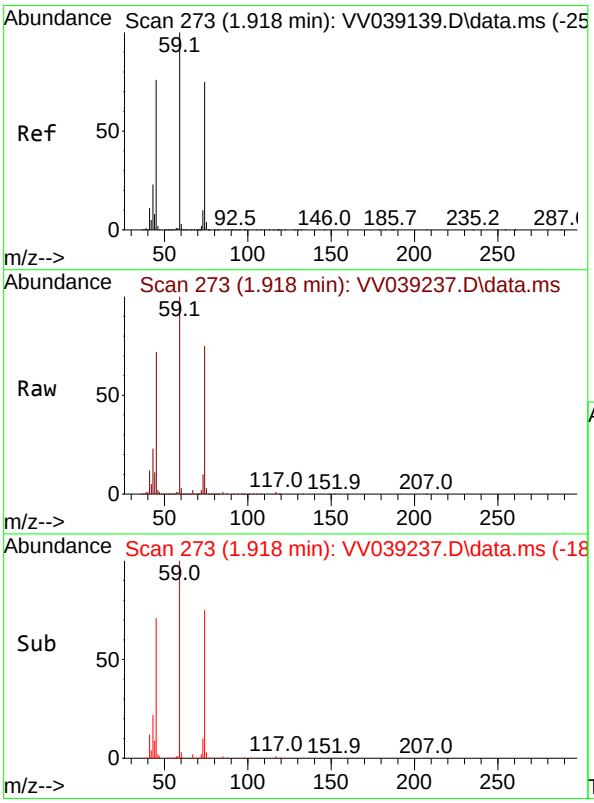
#7
Trichlorofluoromethane
Concen: 47.886 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:101 Resp: 623183

Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.0	78.0

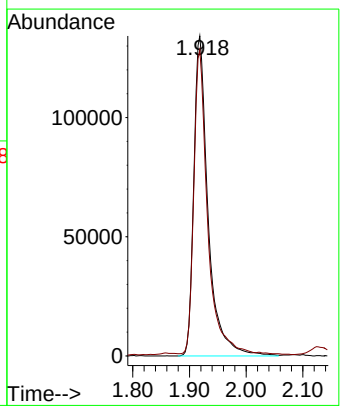


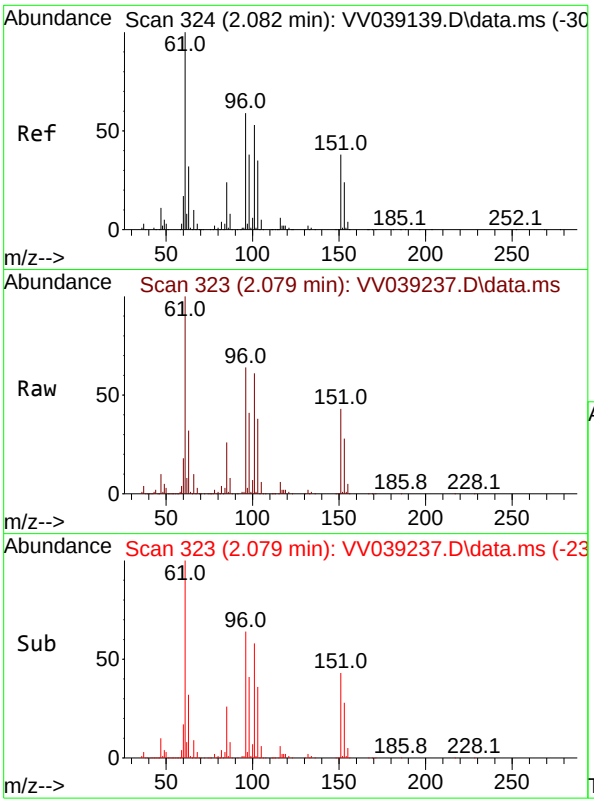


#8
Diethyl Ether
Concen: 48.918 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 74 Resp: 236336

Ion	Ratio	Lower	Upper
74	100		
45	90.6	49.6	148.8



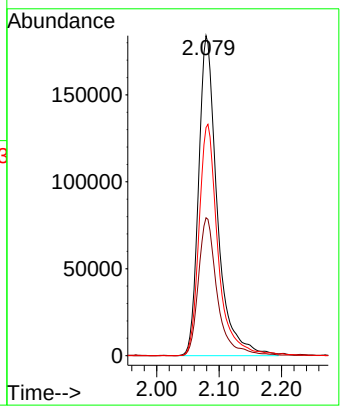


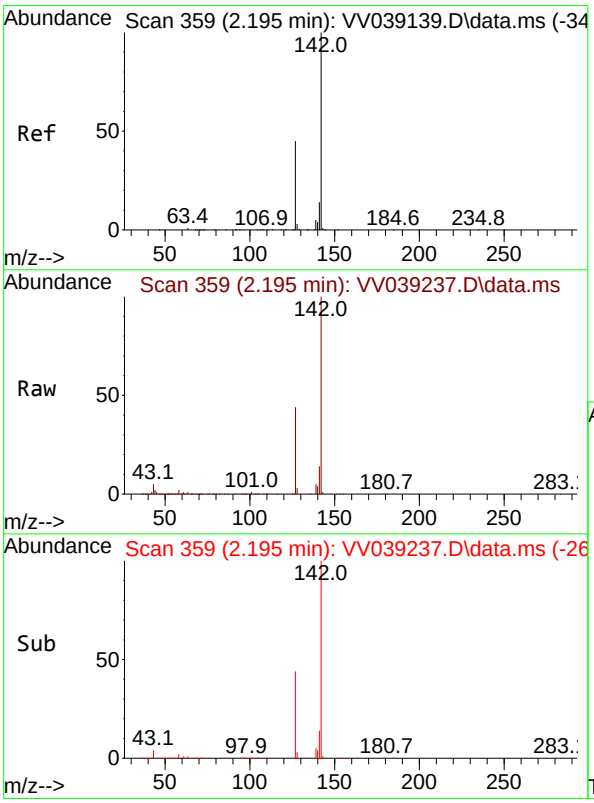
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.543 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:101 Resp: 383628

Ion	Ratio	Lower	Upper
101	100		
85	43.6	36.2	54.2
151	73.1	56.3	84.5

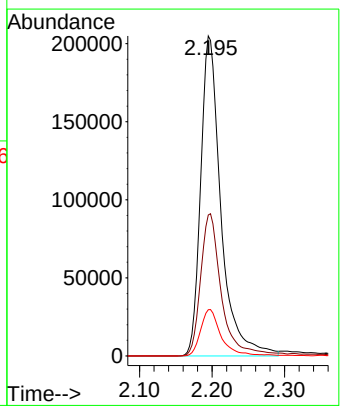


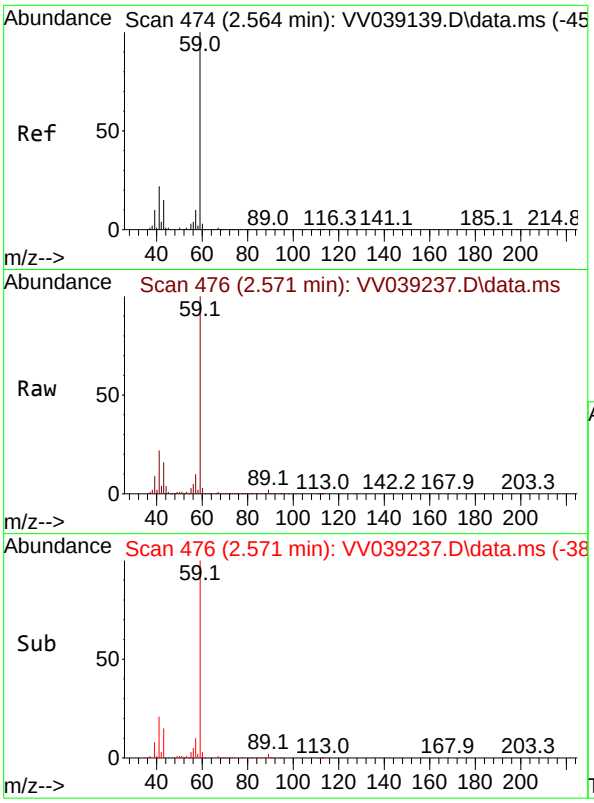


#10
Methyl Iodide
Concen: 54.016 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:142 Resp: 398316

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.3	54.5
141	14.6	11.2	16.8



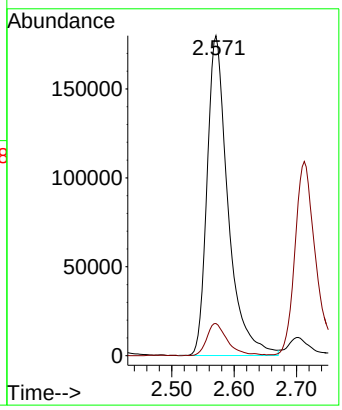


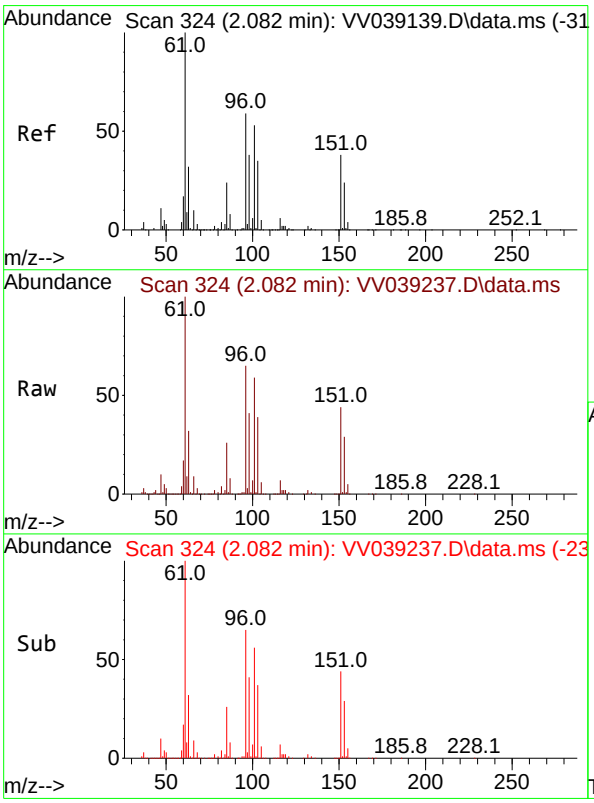
#11
Tert butyl alcohol
Concen: 277.559 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 59 Resp: 419483

Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.8	11.8

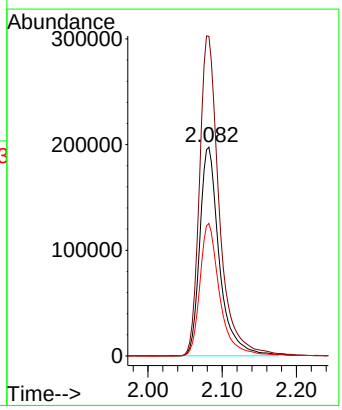


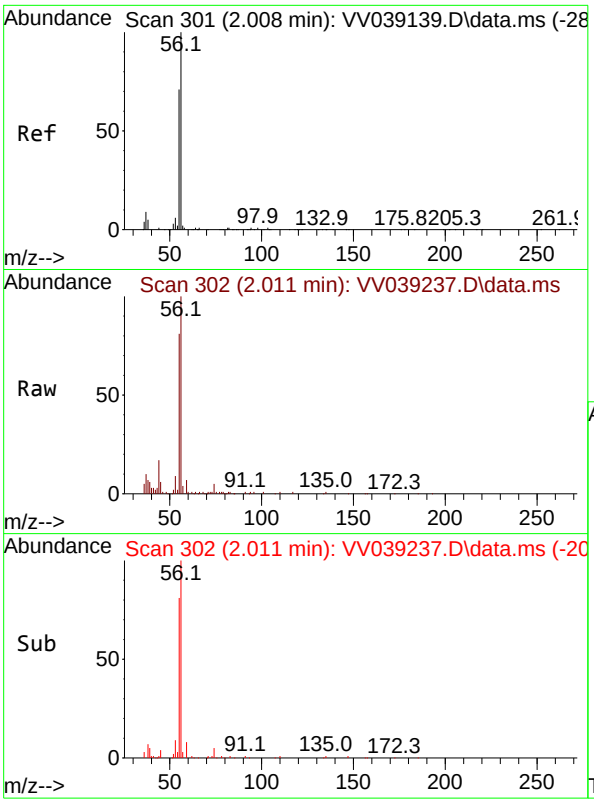


#12
1,1-Dichloroethene
Concen: 48.695 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 96 Resp: 362747

Ion	Ratio	Lower	Upper
96	100		
61	153.2	136.0	204.0
98	63.4	51.0	76.6



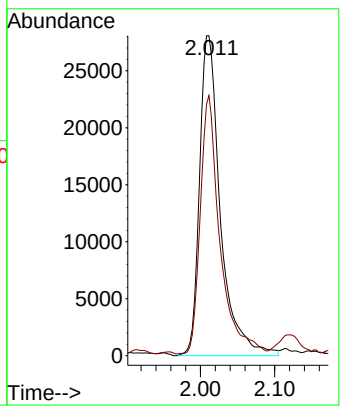


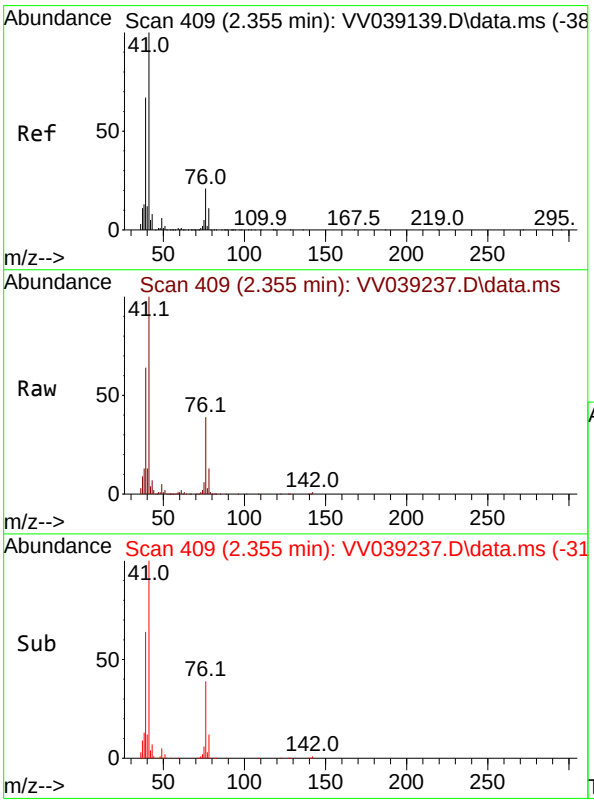
#13
Acrolein
Concen: 209.242 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 56 Resp: 54873

Ion	Ratio	Lower	Upper
56	100		
55	75.7	56.2	84.4

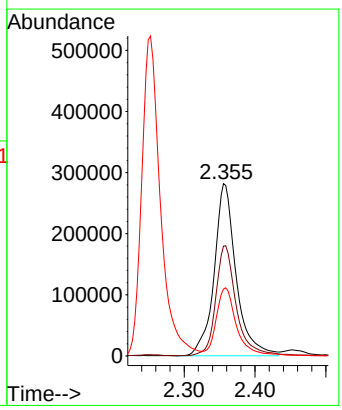


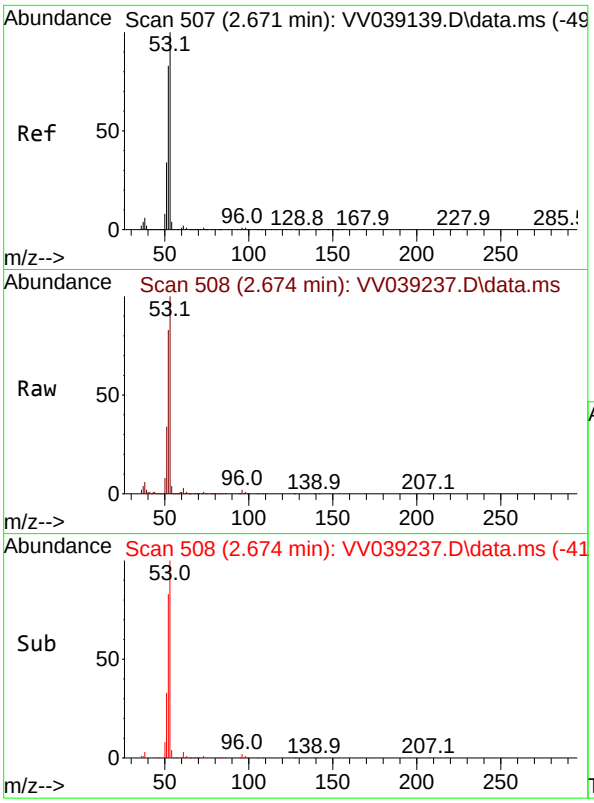


#14
Allyl chloride
Concen: 45.576 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 41 Resp: 606456

Ion	Ratio	Lower	Upper
41	100		
39	60.4	51.0	76.6
76	36.9	28.2	42.4



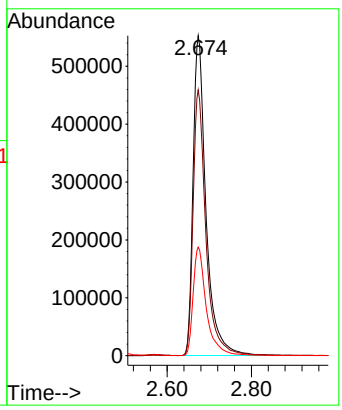


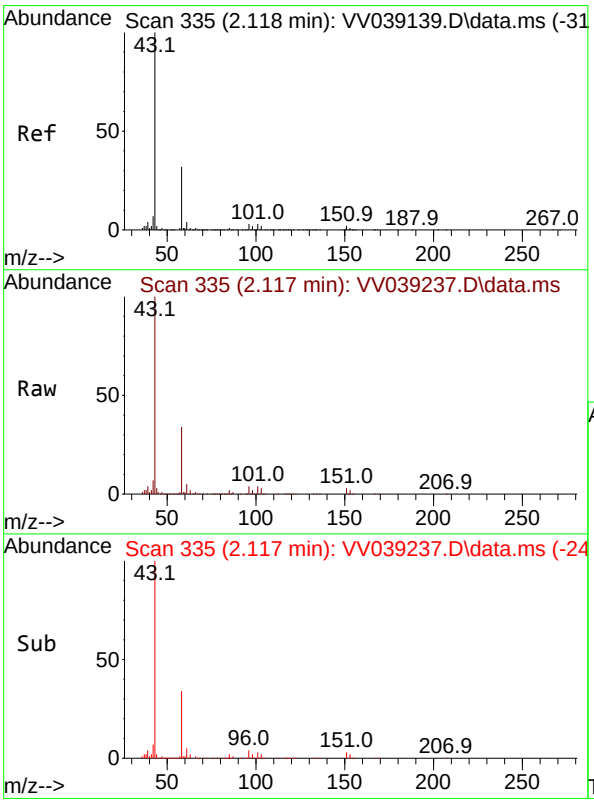
#15
Acrylonitrile
Concen: 243.193 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 53 Resp: 1178223

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.1	99.1
51	34.6	28.5	42.7

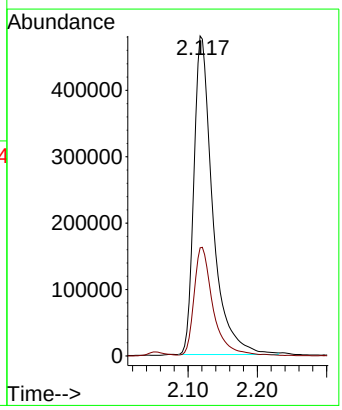


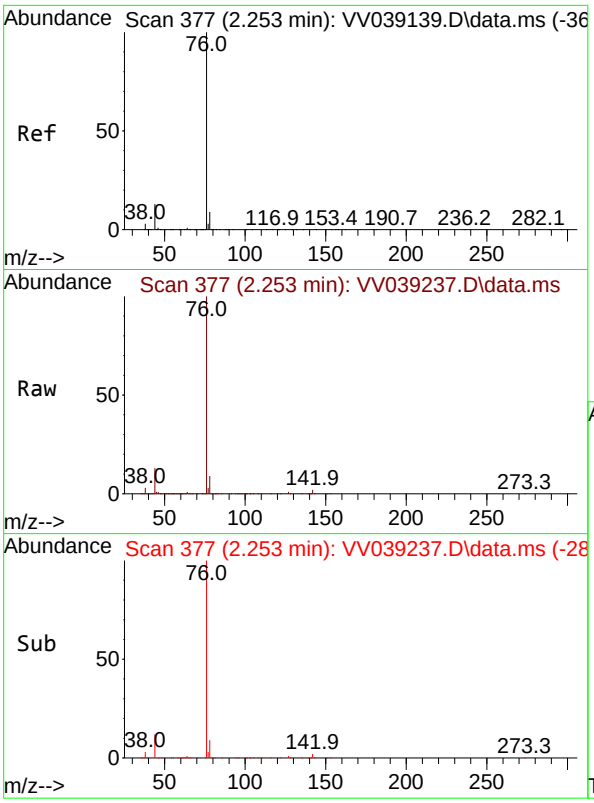


#16
Acetone
Concen: 201.215 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 43 Resp: 904116

Ion	Ratio	Lower	Upper
43	100		
58	33.7	25.8	38.6



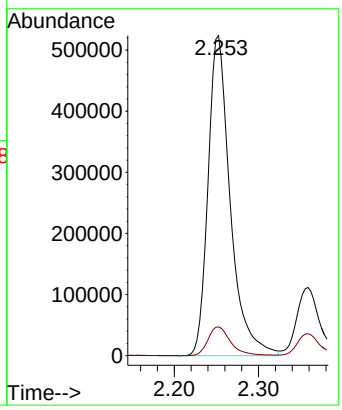


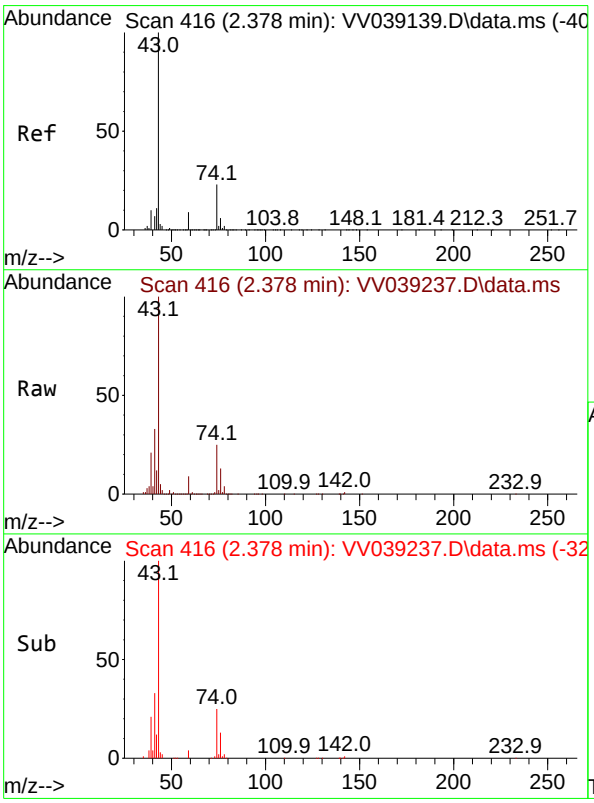
#17
Carbon Disulfide
Concen: 42.130 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 76 Resp: 959826

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

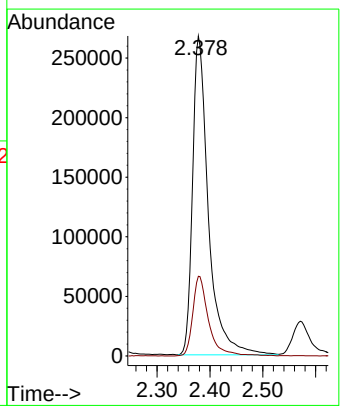


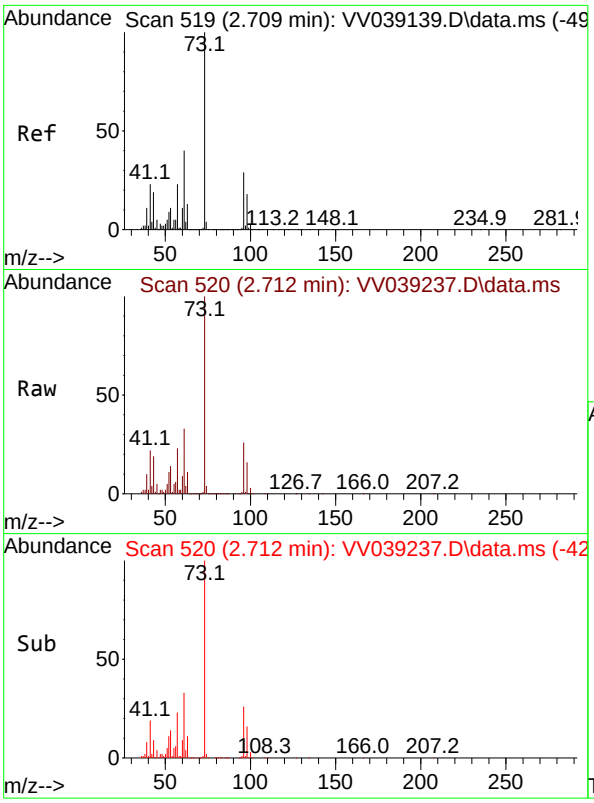


#18
Methyl Acetate
Concen: 52.479 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 43 Resp: 556007

Ion	Ratio	Lower	Upper
43	100		
74	25.1	18.6	27.8



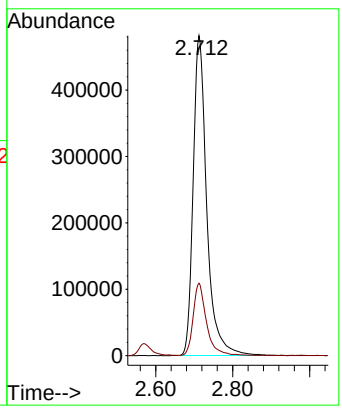


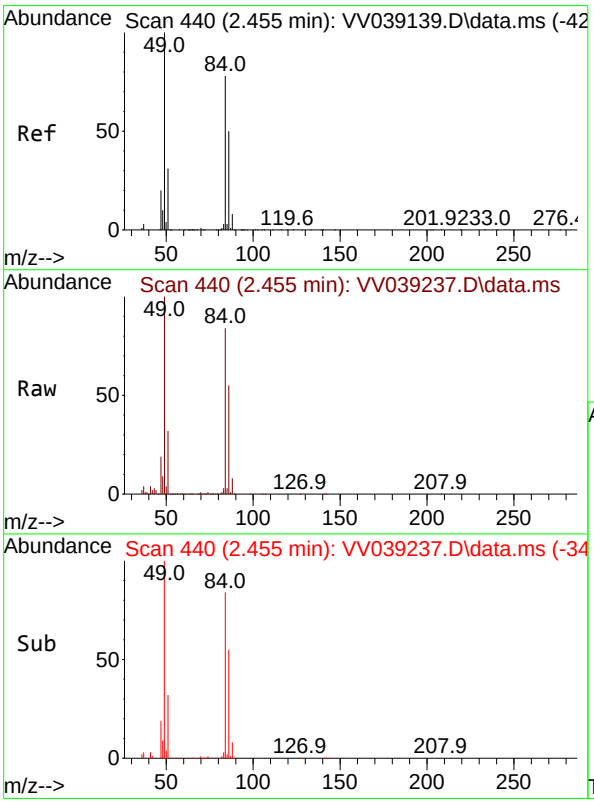
#19
Methyl tert-butyl Ether
Concen: 49.820 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 73 Resp: 1182602

Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.2	27.4

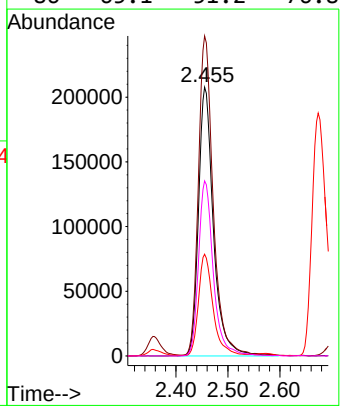


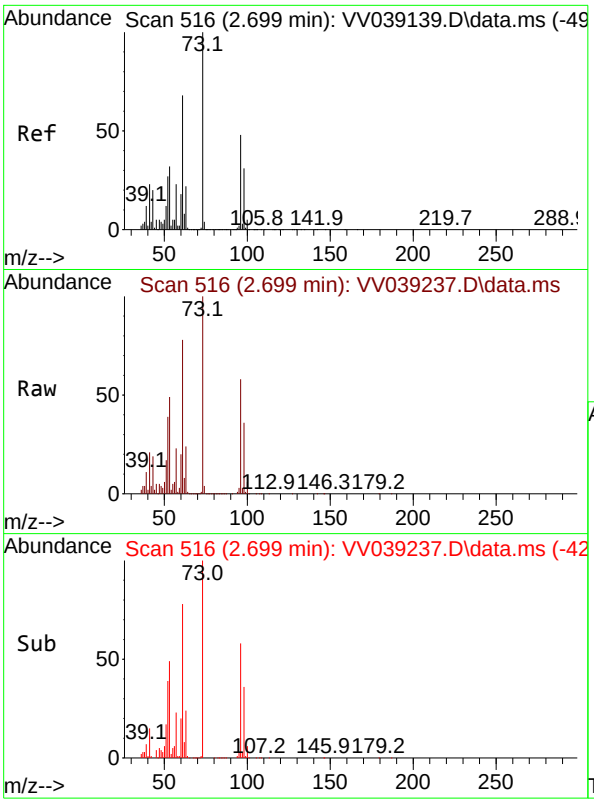


#20
Methylene Chloride
Concen: 54.112 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 84 Resp: 415757

Ion	Ratio	Lower	Upper
84	100		
49	118.7	102.8	154.2
51	37.6	31.9	47.9
86	65.1	51.2	76.8



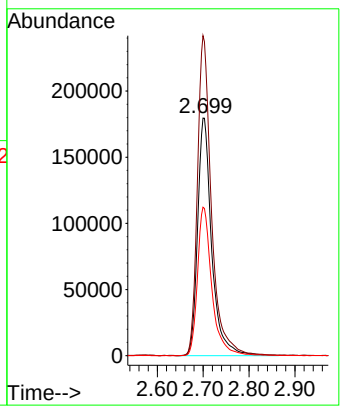


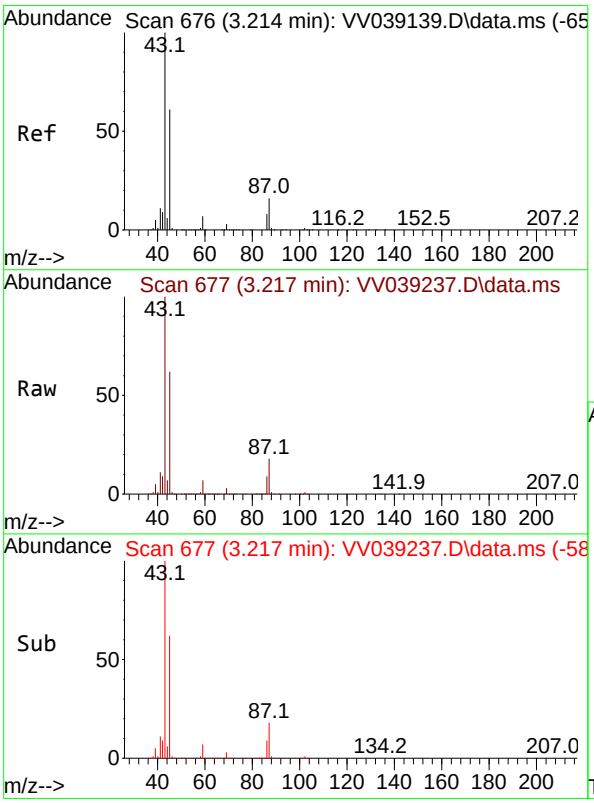
#21
trans-1,2-Dichloroethene
Concen: 48.340 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 96 Resp: 383354

Ion	Ratio	Lower	Upper
96	100		
61	134.7	112.8	169.2
98	62.5	51.1	76.7

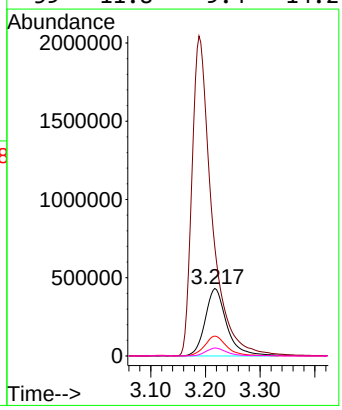


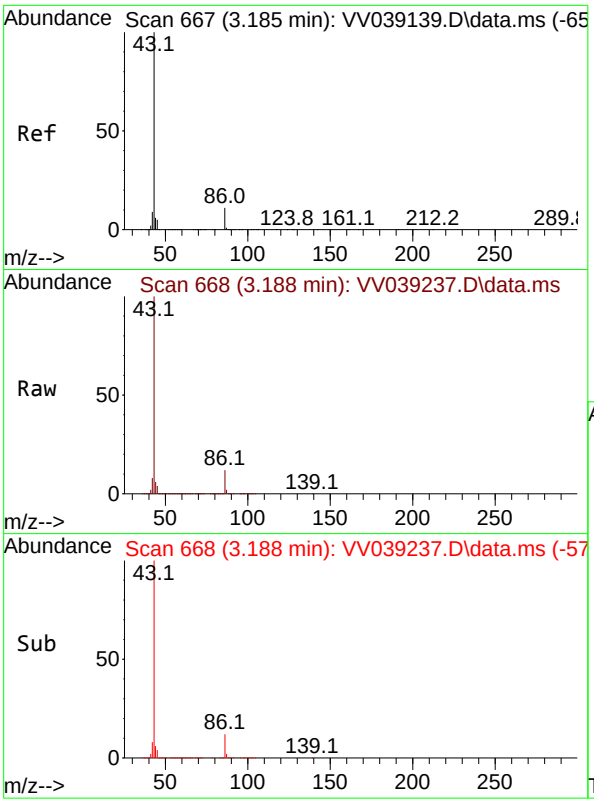


#22
Diisopropyl ether
Concen: 46.291 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 45 Resp: 1178542

Ion	Ratio	Lower	Upper
45	100		
43	161.0	130.9	196.3
87	29.4	21.1	31.7
59	11.8	9.4	14.2



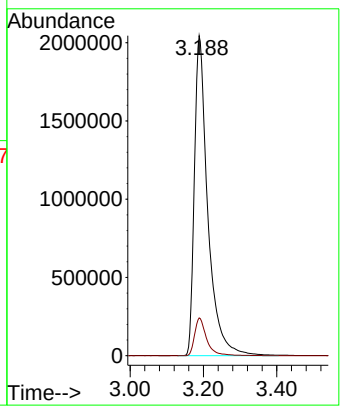


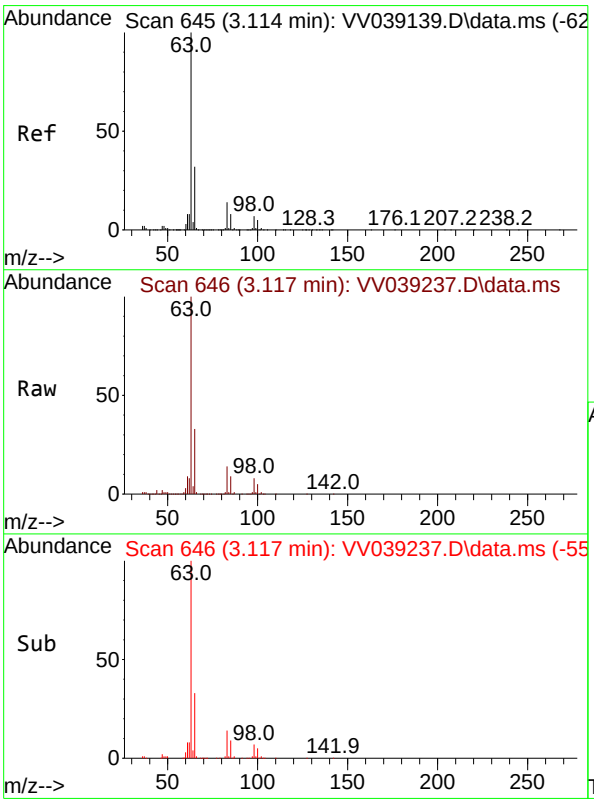
#23
Vinyl Acetate
Concen: 232.628 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 43 Resp: 5180952

Ion	Ratio	Lower	Upper
43	100		
86	11.8	8.4	12.6

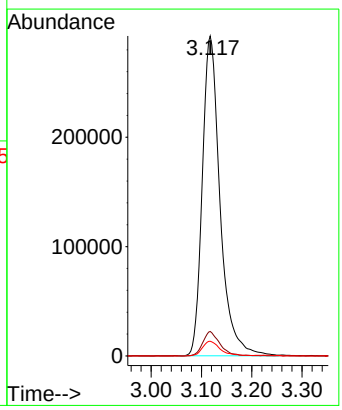


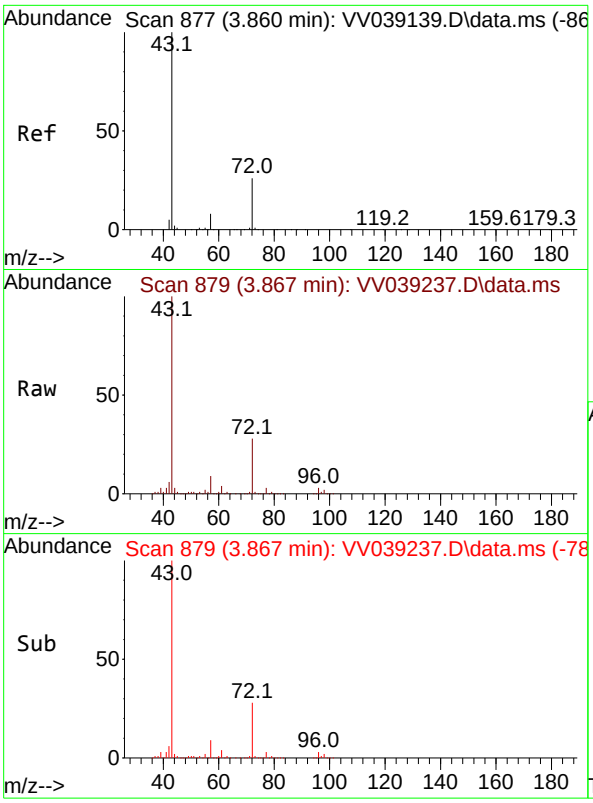


#24
1,1-Dichloroethane
Concen: 46.143 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 63 Resp: 718406

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.4	10.2
100	4.6	2.2	6.6



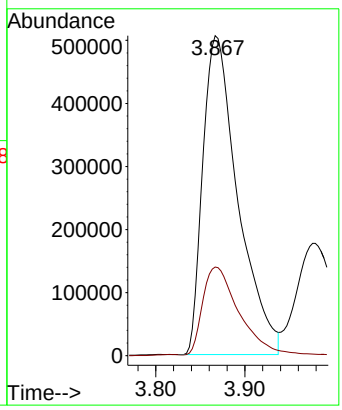


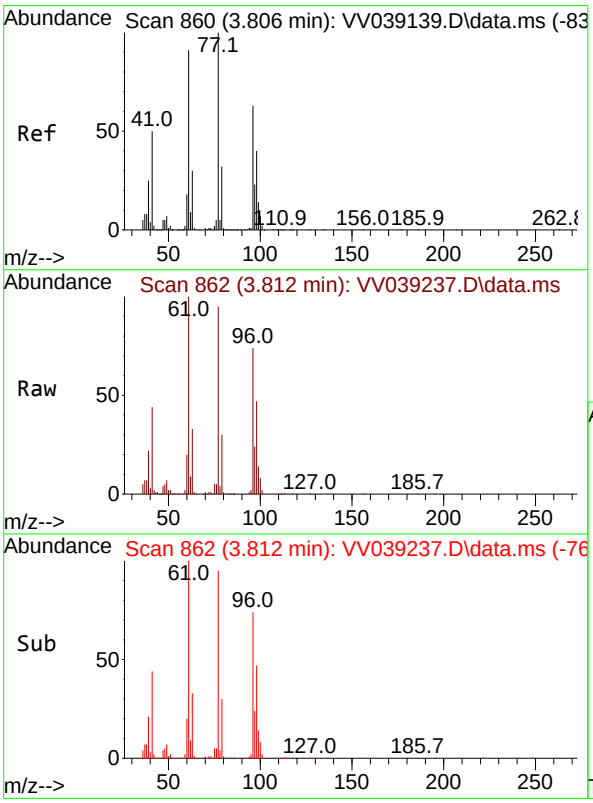
#25
2-Butanone
Concen: 242.327 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 43 Resp: 1387581

Ion	Ratio	Lower	Upper
43	100		
72	27.5	21.0	31.6

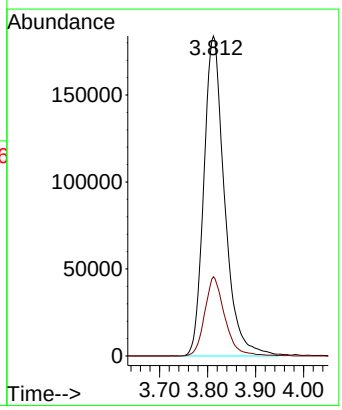


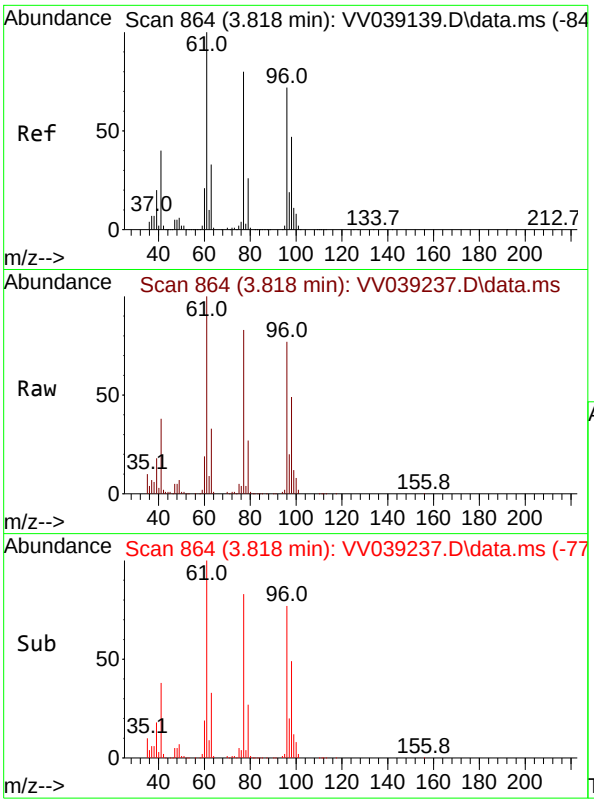


#26
2,2-Dichloropropane
Concen: 40.030 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 77 Resp: 552601

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.6	34.7



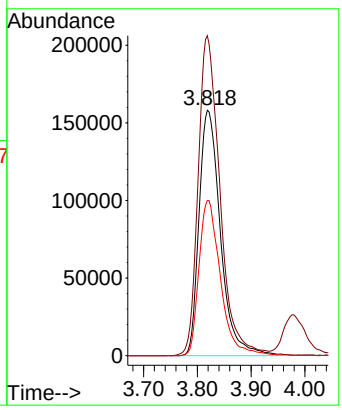


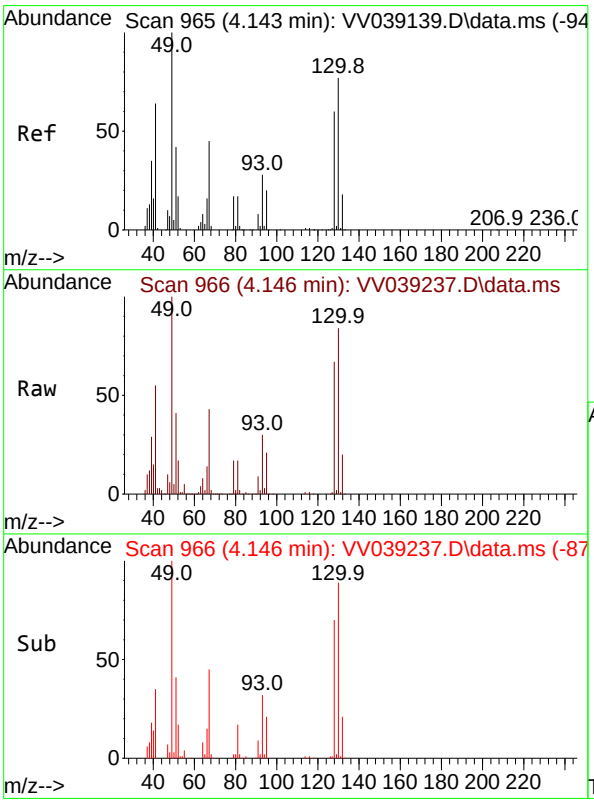
#27
cis-1,2-Dichloroethene
Concen: 50.080 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 96 Resp: 438015

Ion	Ratio	Lower	Upper
96	100		
61	132.8	0.0	286.4
98	63.4	0.0	126.6

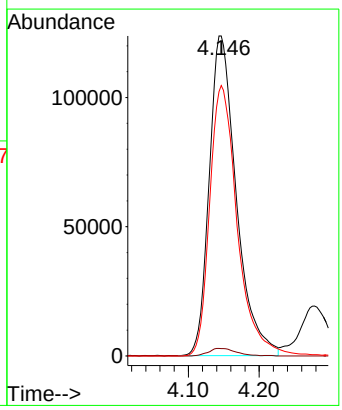


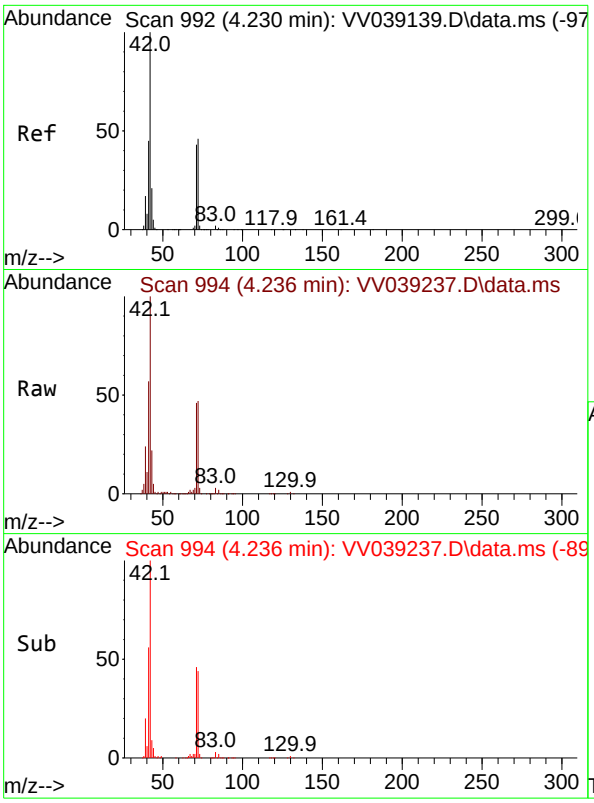


#28
Bromochloromethane
Concen: 47.856 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 49 Resp: 328927

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	86.3	60.2	90.2



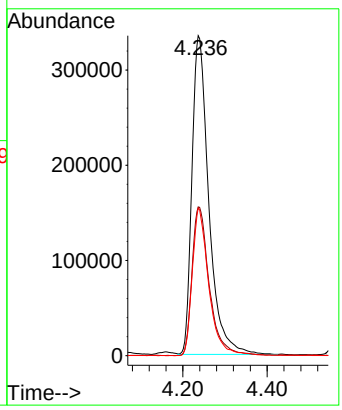


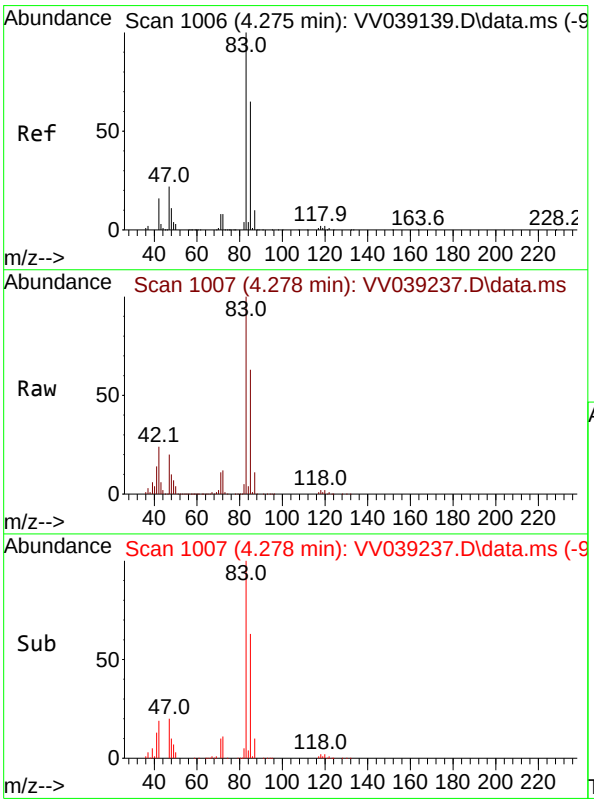
#29
Tetrahydrofuran
Concen: 259.623 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 42 Resp: 930513

Ion	Ratio	Lower	Upper
42	100		
72	47.7	36.3	54.5
71	45.4	34.3	51.5

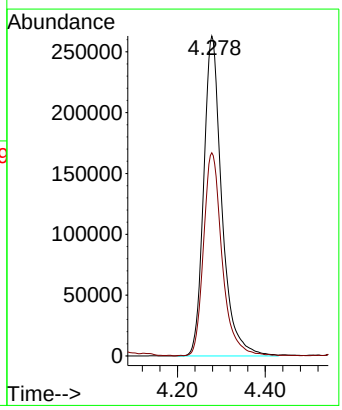


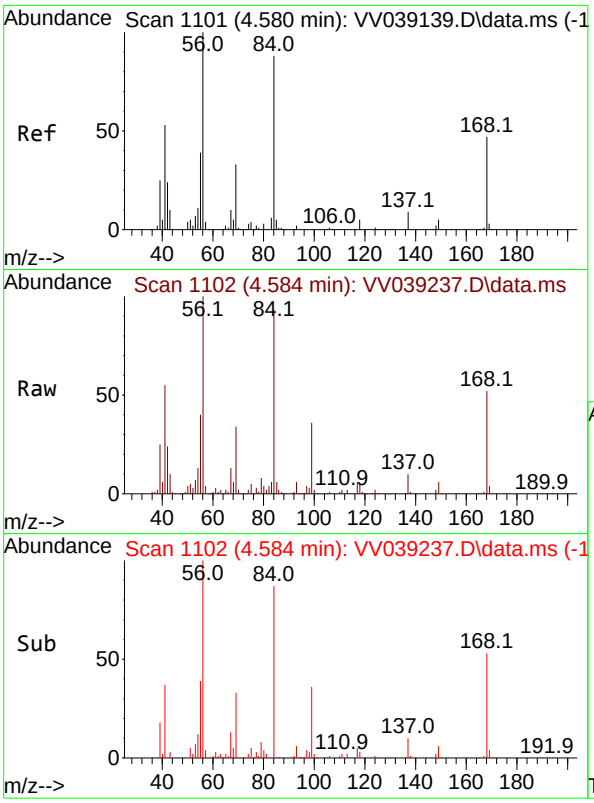


#30
Chloroform
Concen: 46.409 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 83 Resp: 754498

Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.1	78.1



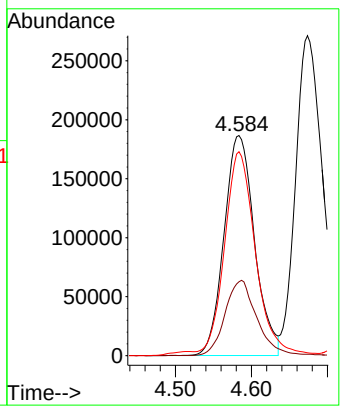


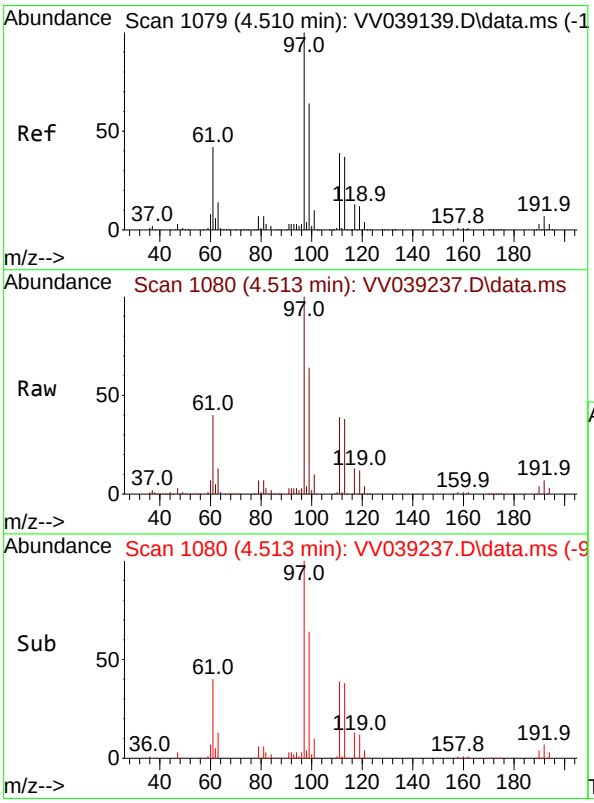
#31
Cyclohexane
Concen: 40.739 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 56 Resp: 519580

Ion	Ratio	Lower	Upper
56	100		
69	33.5	26.2	39.2
84	91.2	70.3	105.5

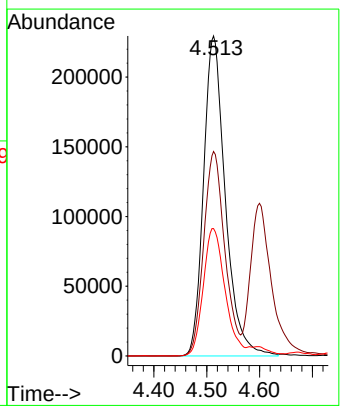


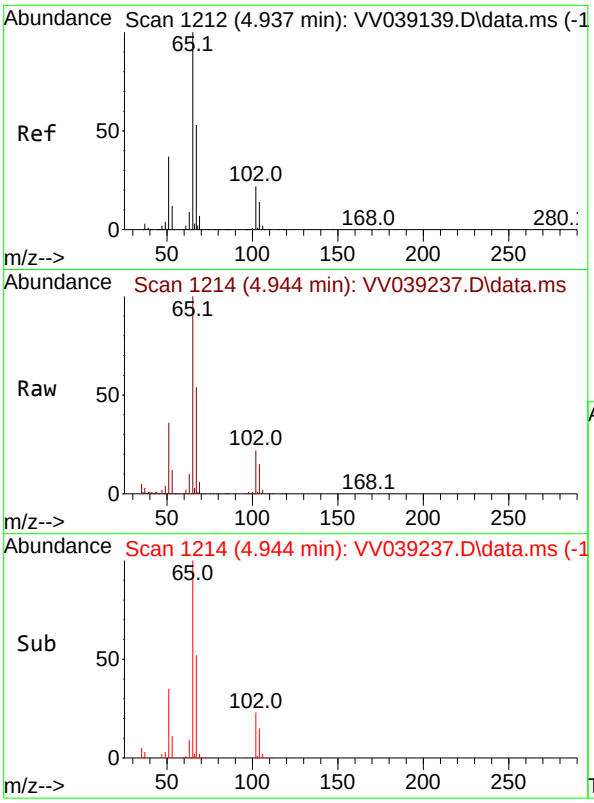


#32
1,1,1-Trichloroethane
Concen: 46.645 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 97 Resp: 656518

Ion	Ratio	Lower	Upper
97	100		
99	62.0	49.6	74.4
61	39.7	34.5	51.7



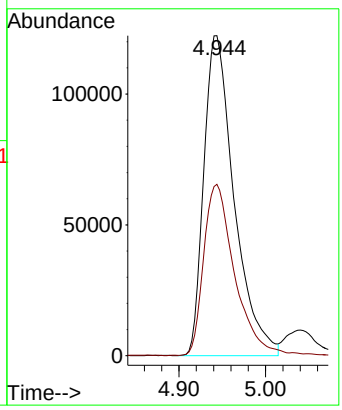


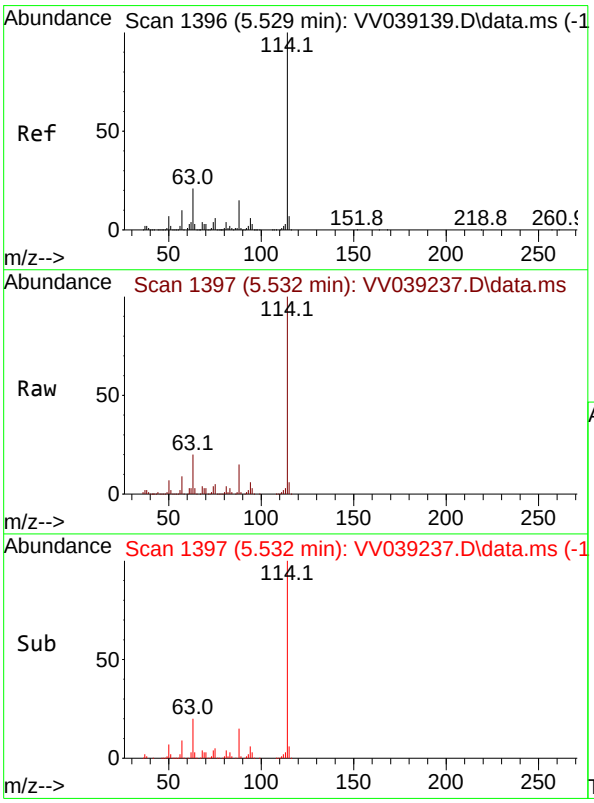
#33
1,2-Dichloroethane-d4
Concen: 41.681 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 65 Resp: 298046

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	107.0

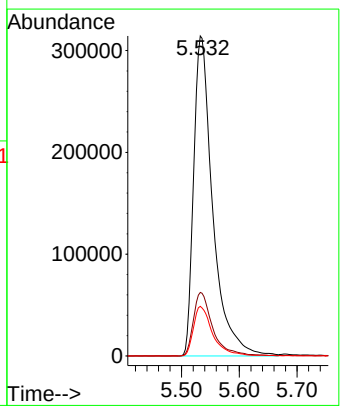


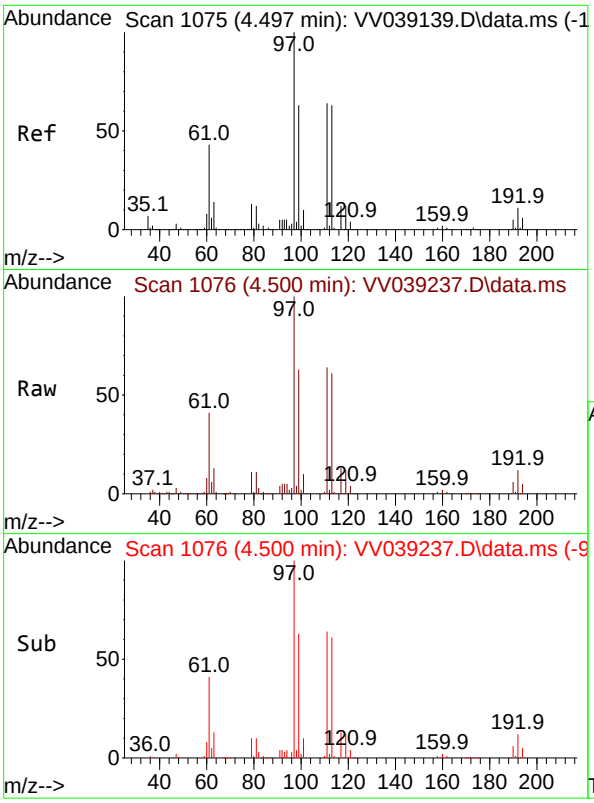


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:114 Resp: 722914

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.6
88	15.5	0.0	30.8



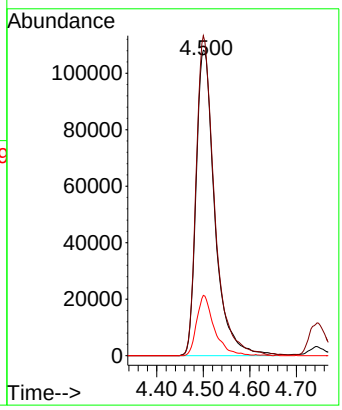


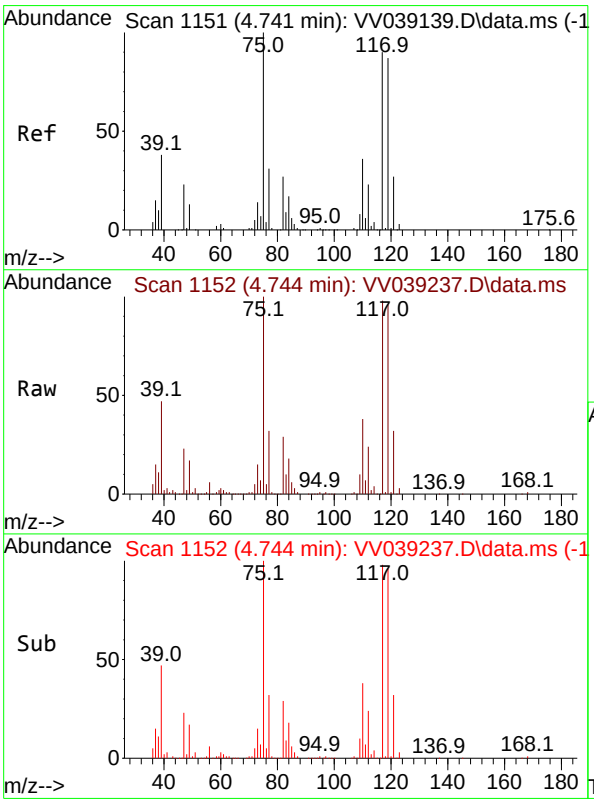
#35
Dibromofluoromethane
Concen: 51.701 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:113 Resp: 300465

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	18.7	13.8	20.8

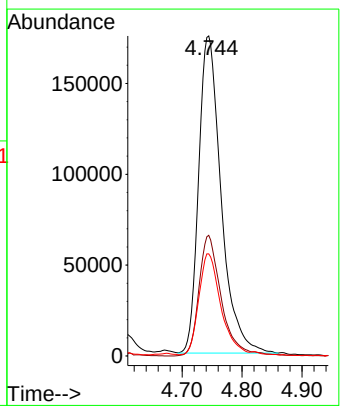


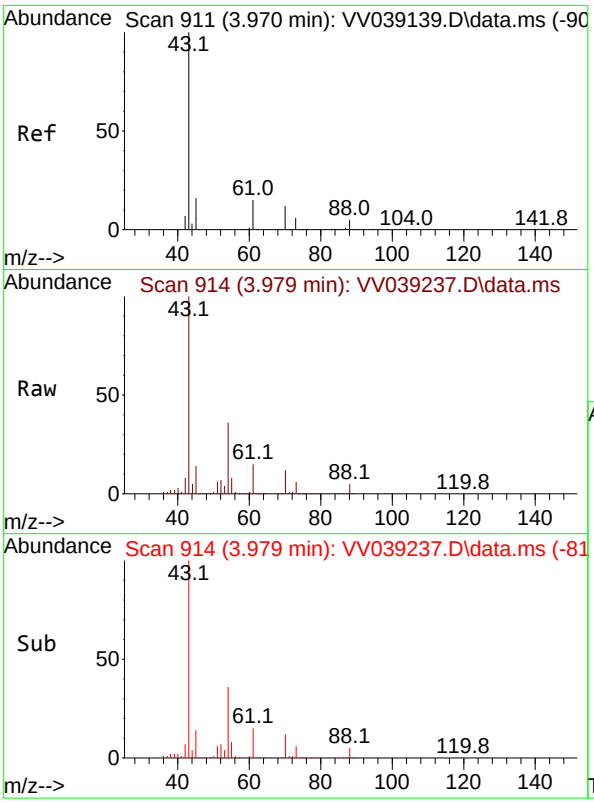


#36
1,1-Dichloropropene
Concen: 51.851 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 75 Resp: 455596

Ion	Ratio	Lower	Upper
75	100		
110	38.0	18.1	54.1
77	30.7	24.8	37.2



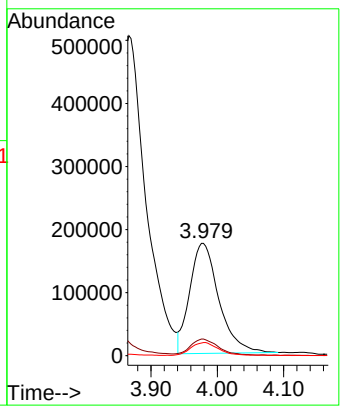


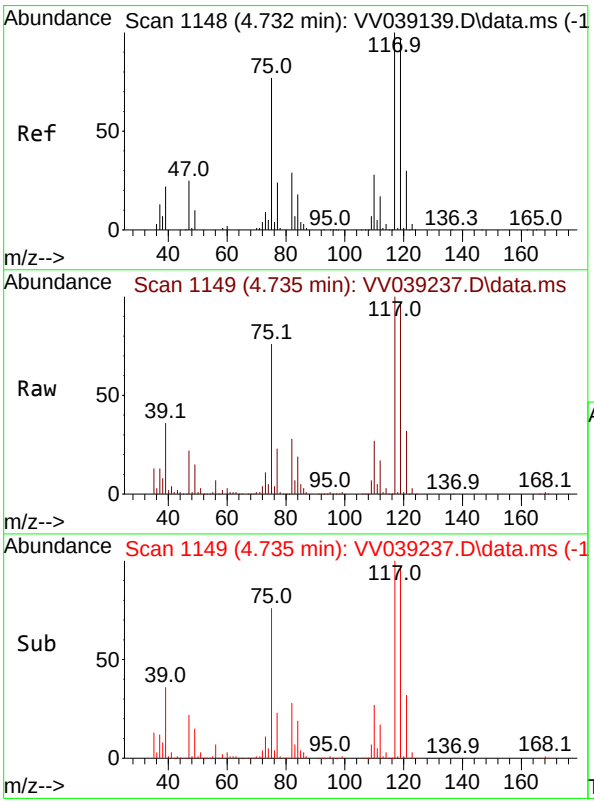
#37
Ethyl Acetate
Concen: 50.028 ug/l
RT: 3.979 min Scan# 91
Delta R.T. 0.009 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 43 Resp: 533392

Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.3	15.5
70	10.9	8.0	12.0

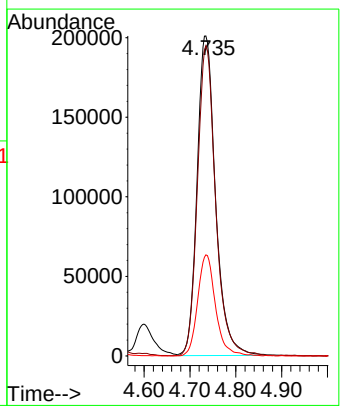


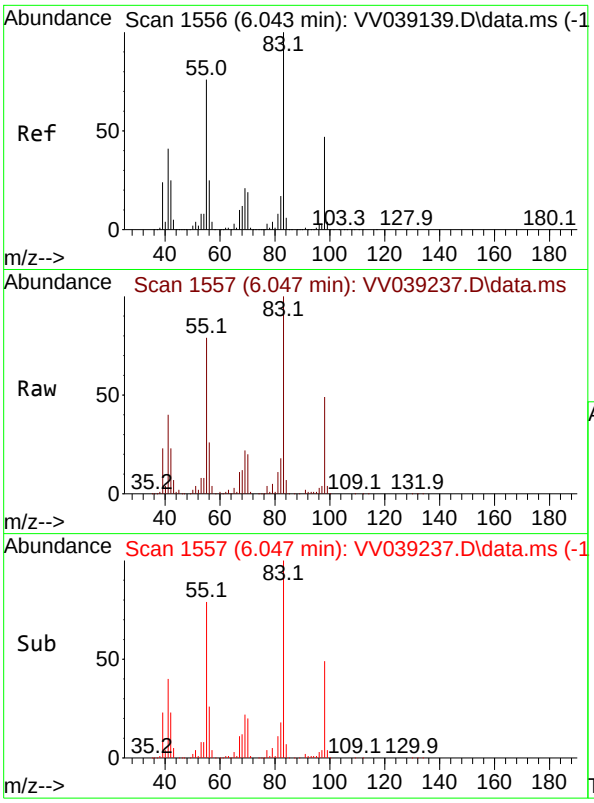


#38
Carbon Tetrachloride
Concen: 52.275 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:117 Resp: 561360

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.2	115.8
121	31.7	24.2	36.2



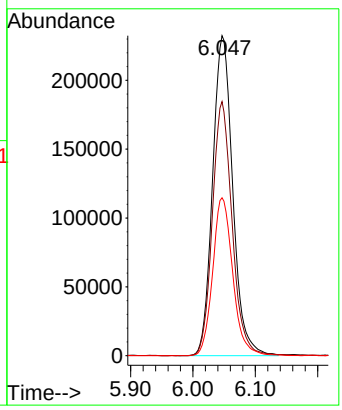


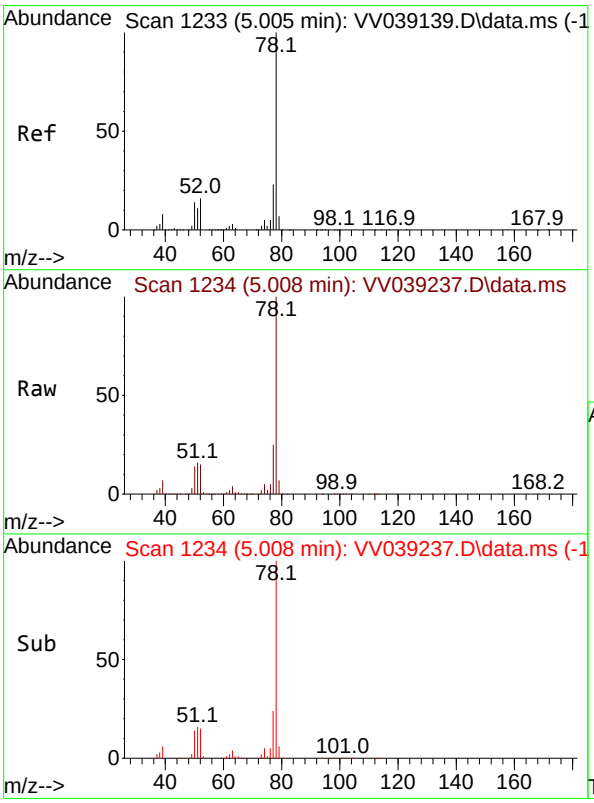
#39
Methylcyclohexane
Concen: 49.102 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 83 Resp: 521023

Ion	Ratio	Lower	Upper
83	100		
55	79.4	60.5	90.7
98	49.3	37.8	56.6

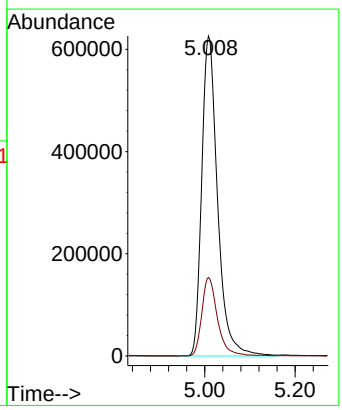


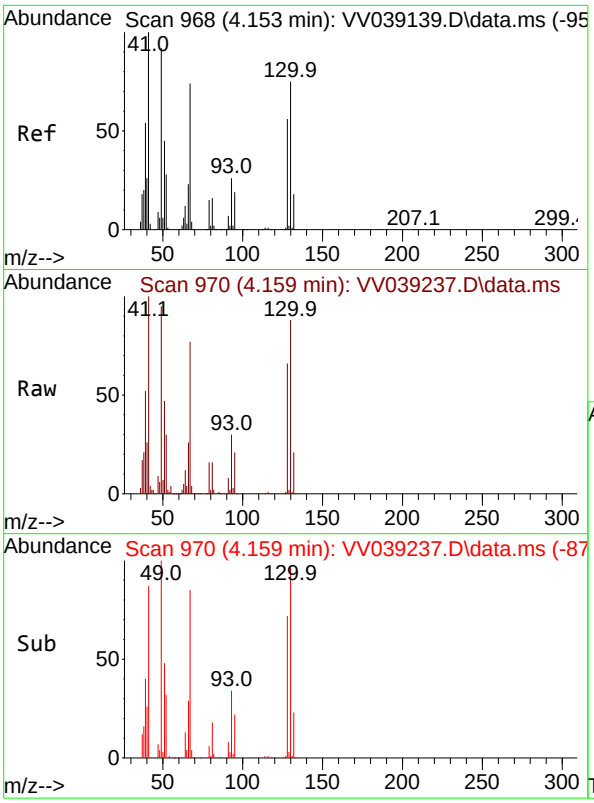


#40
Benzene
Concen: 53.221 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 78 Resp: 1522784

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.7	28.1



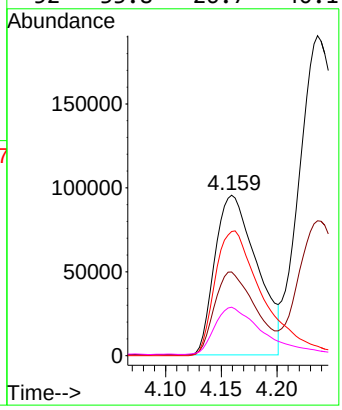


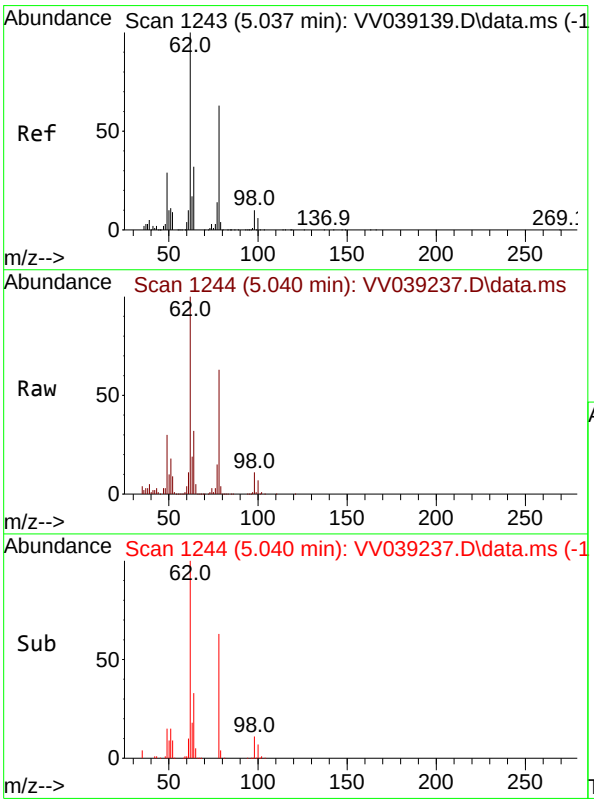
#41
Methacrylonitrile
Concen: 52.000 ug/l
RT: 4.159 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 41 Resp: 251054

Ion	Ratio	Lower	Upper
41	100		
39	50.9	42.2	63.2
67	92.1	67.9	101.9
52	33.8	26.7	40.1

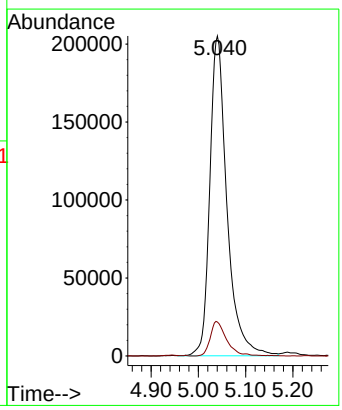


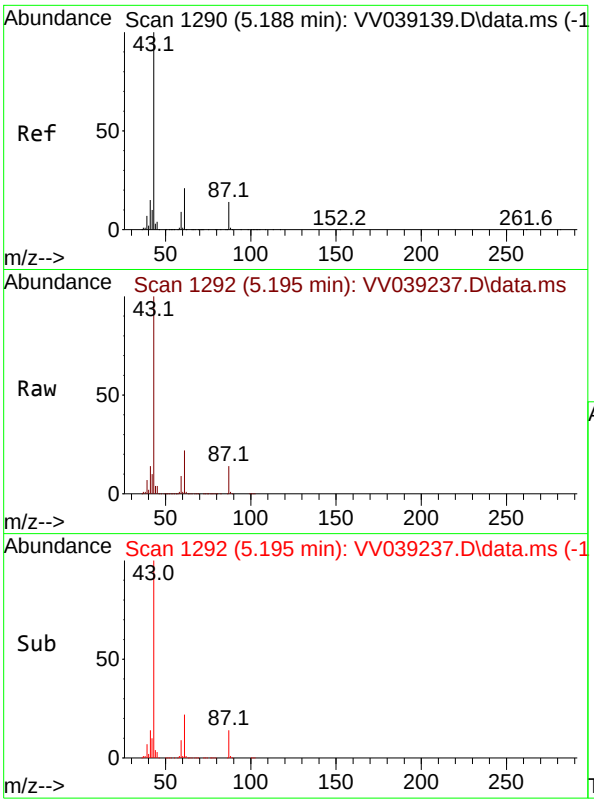


#42
1,2-Dichloroethane
Concen: 51.551 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 62 Resp: 516822

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.2



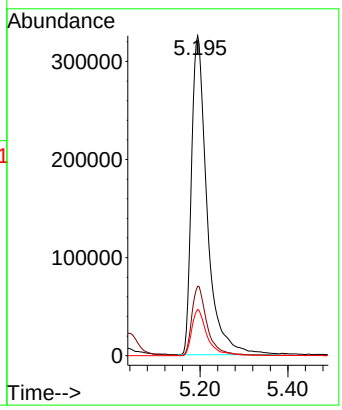


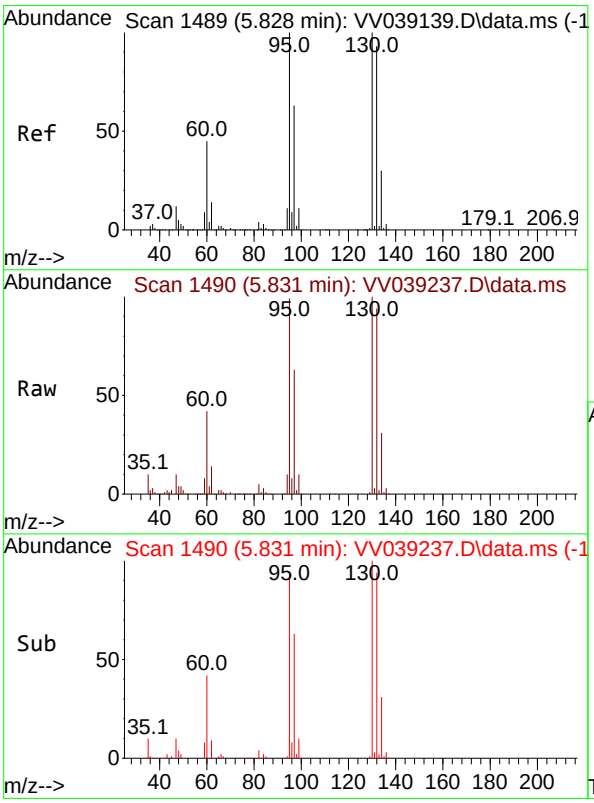
#43
Isopropyl Acetate
Concen: 55.271 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 43 Resp: 803487

Ion	Ratio	Lower	Upper
43	100		
61	21.0	15.9	23.9
87	14.1	11.0	16.6

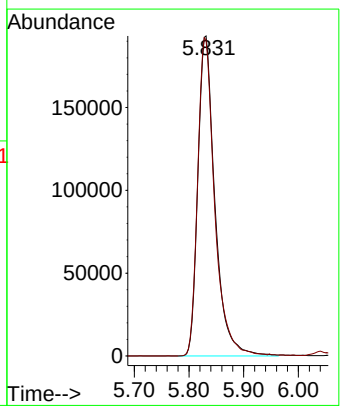


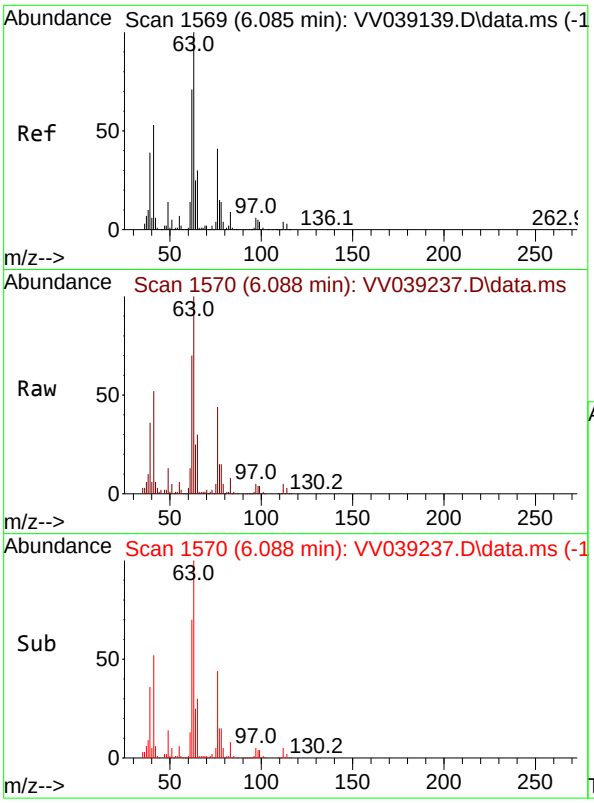


#44
Trichloroethene
Concen: 63.243 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:130 Resp: 417556

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	199.2



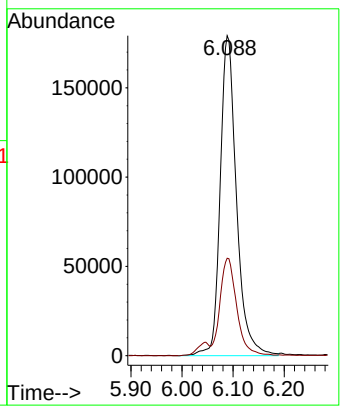


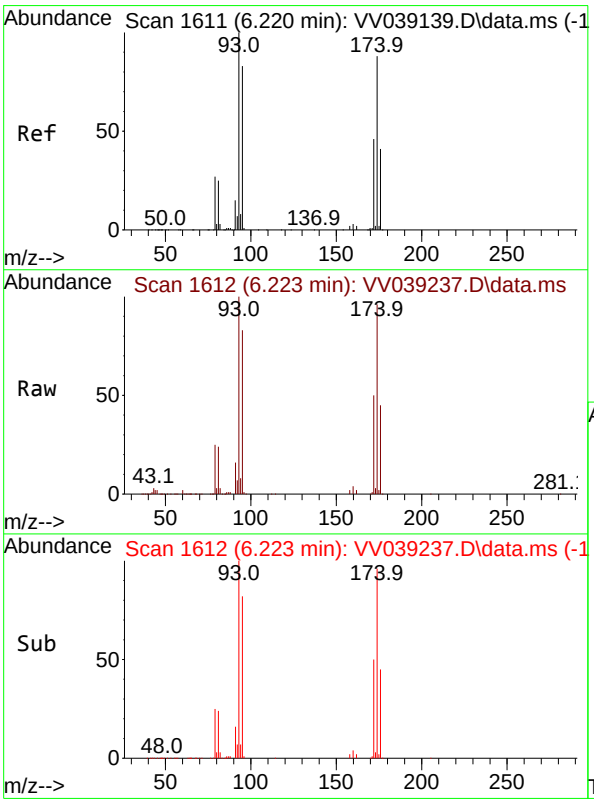
#45
1,2-Dichloropropane
Concen: 55.758 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 63 Resp: 396539

Ion	Ratio	Lower	Upper
63	100		
65	30.4	23.7	35.5

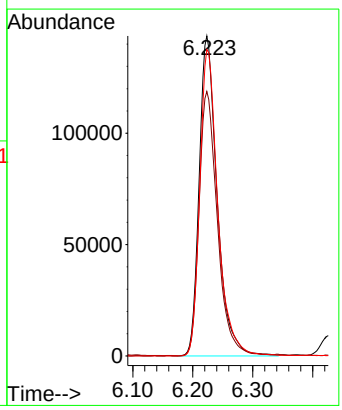


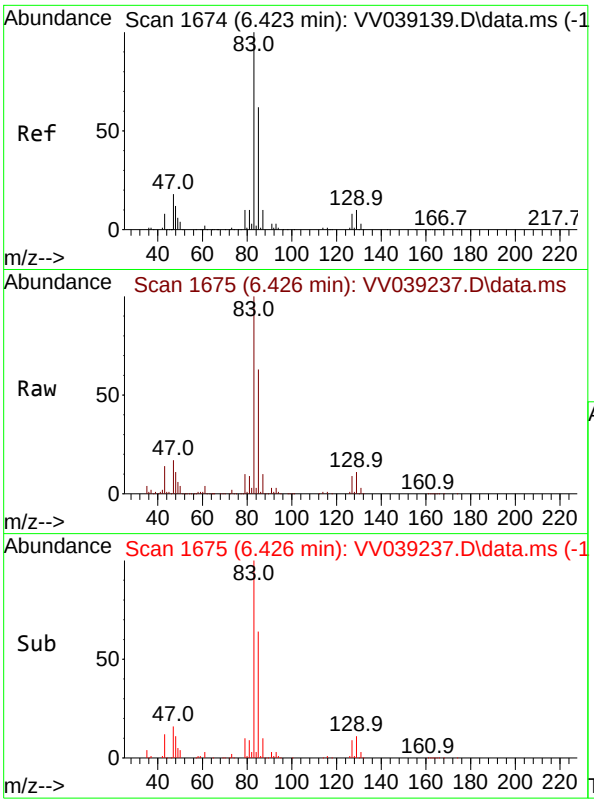


#46
Dibromomethane
Concen: 55.239 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 93 Resp: 300681

Ion	Ratio	Lower	Upper
93	100		
95	83.9	65.5	98.3
174	96.2	69.0	103.4



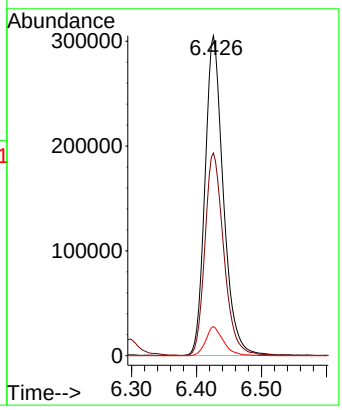


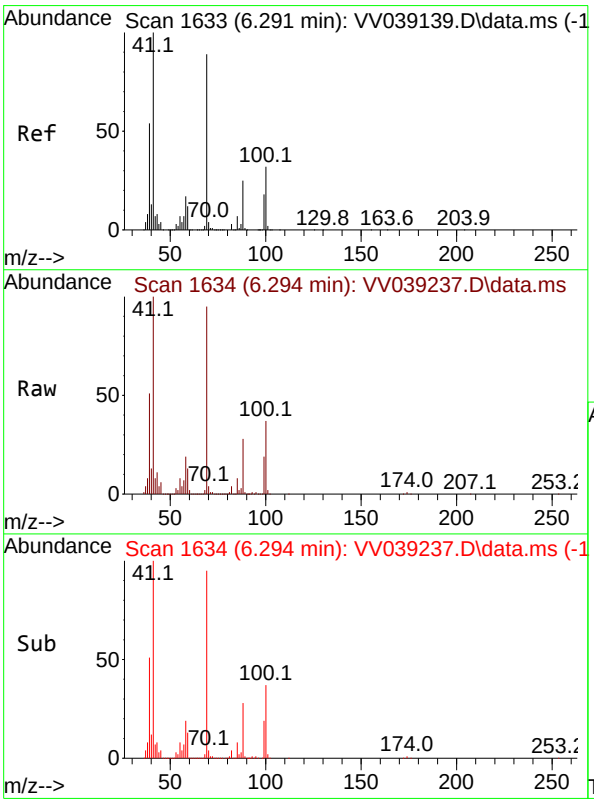
#47
Bromodichloromethane
Concen: 53.355 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 83 Resp: 600401

Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.7	74.5
127	9.1	6.6	9.8

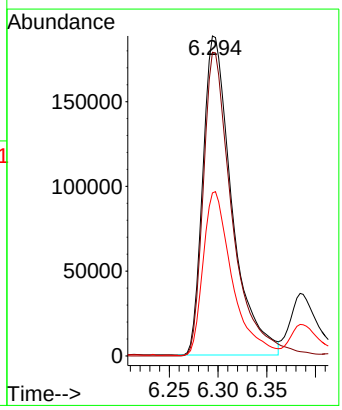


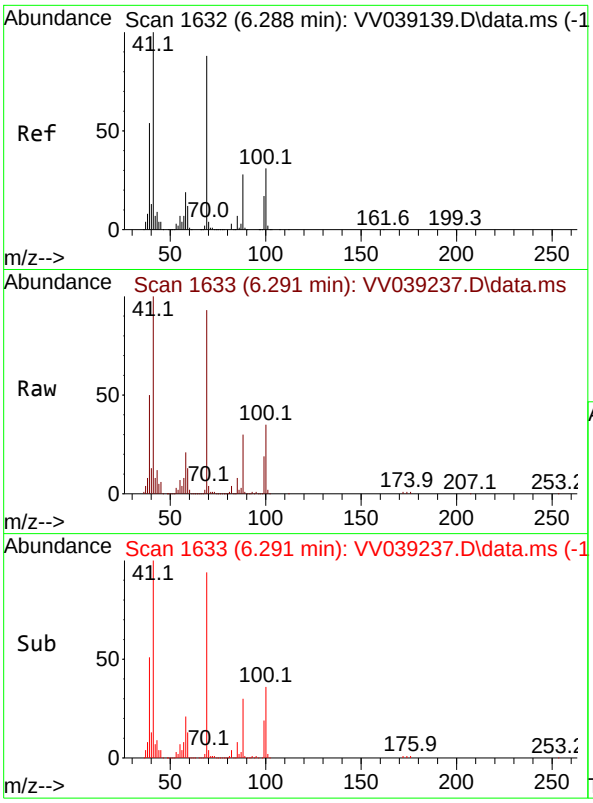


#48
Methyl methacrylate
Concen: 59.056 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 41 Resp: 389168

Ion	Ratio	Lower	Upper
41	100		
69	95.3	72.4	108.6
39	51.3	42.5	63.7



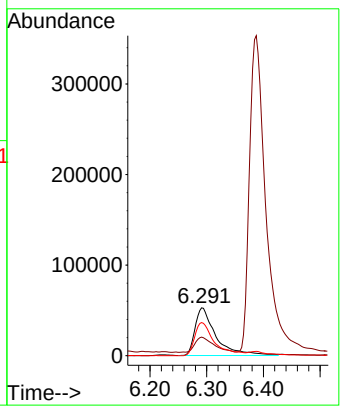


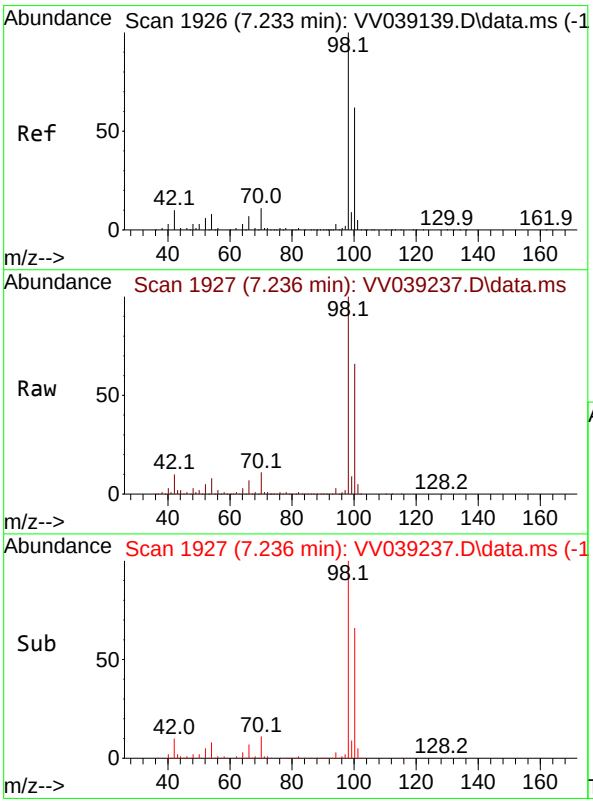
#49
1,4-Dioxane
Concen: 1265.383 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 88 Resp: 134567

Ion	Ratio	Lower	Upper
88	100		
43	27.3	25.1	37.7
58	66.1	53.6	80.4

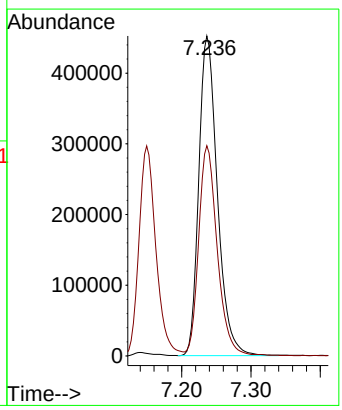


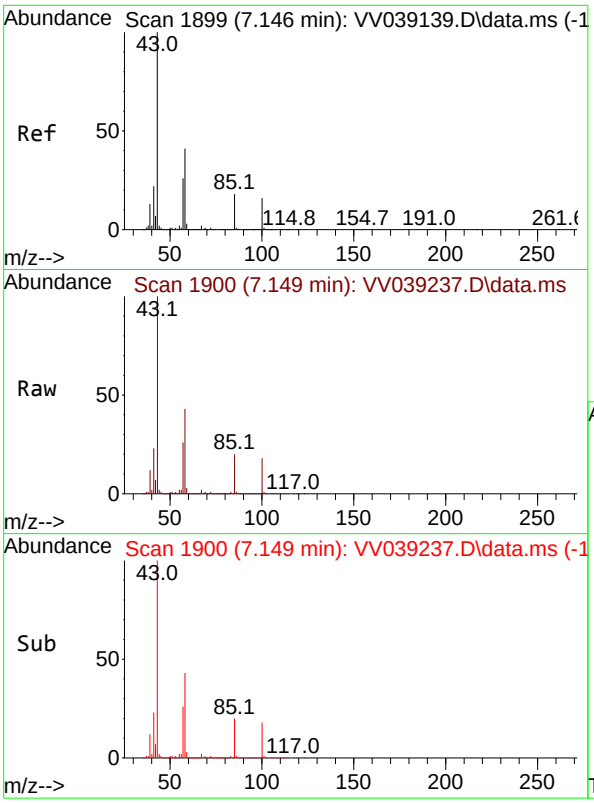


#50
Toluene-d8
Concen: 49.271 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 98 Resp: 841006

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.2



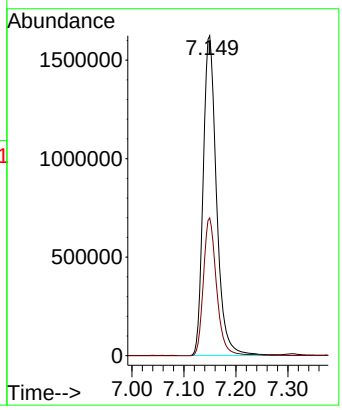


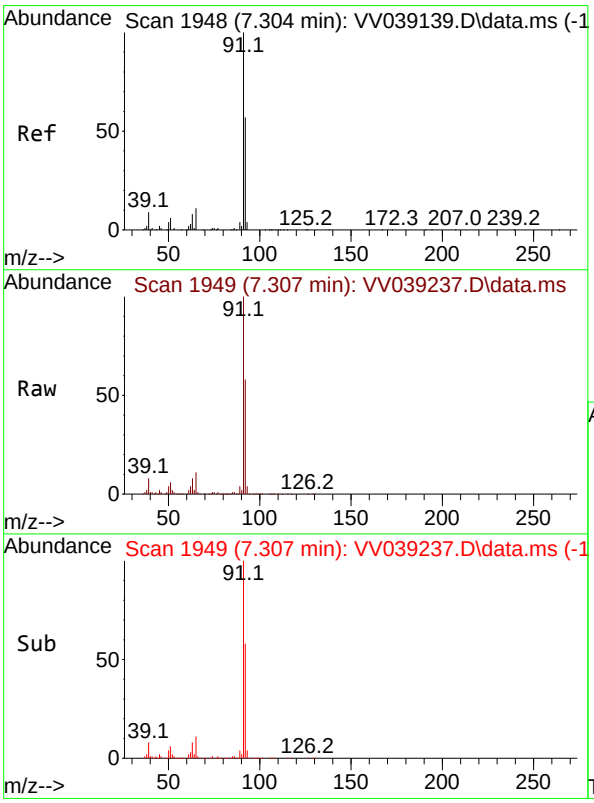
#51
4-Methyl-2-Pentanone
Concen: 303.149 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 43 Resp: 2899248

Ion	Ratio	Lower	Upper
43	100		
58	42.3	32.3	48.5

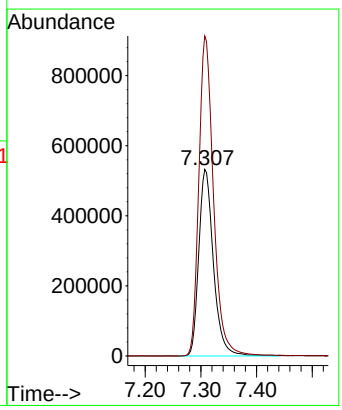


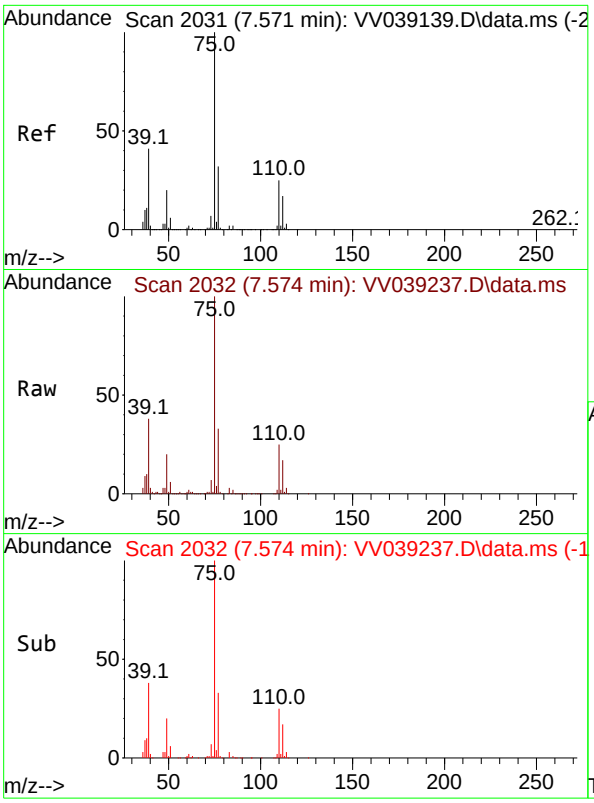


#52
Toluene
Concen: 58.584 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 92 Resp: 971887

Ion	Ratio	Lower	Upper
92	100		
91	171.7	139.2	208.8



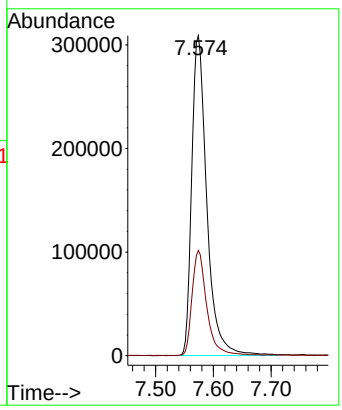


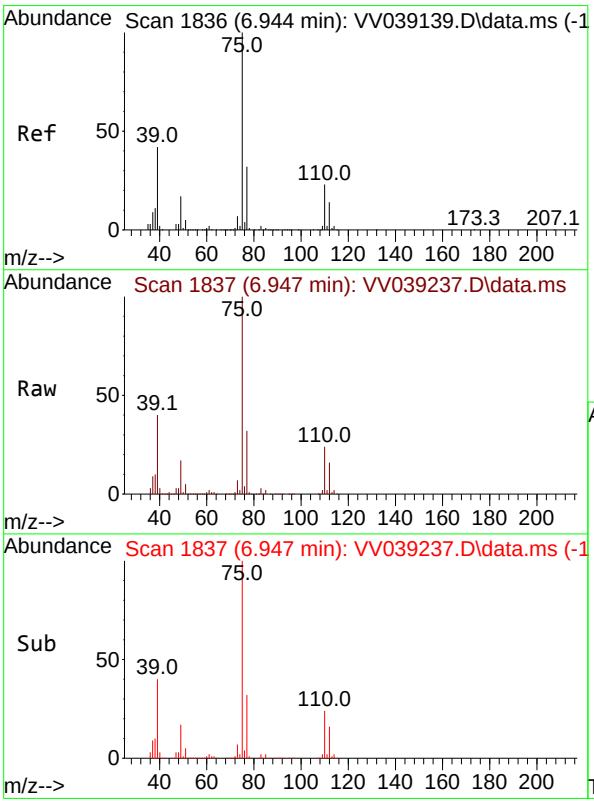
#53
t-1,3-Dichloropropene
Concen: 57.011 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 75 Resp: 559095

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.9	38.9

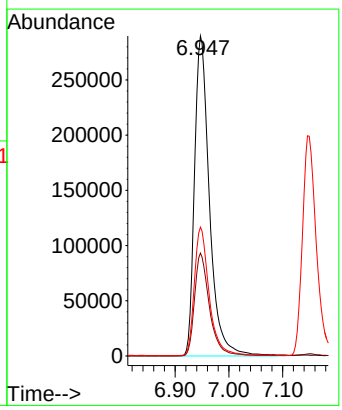


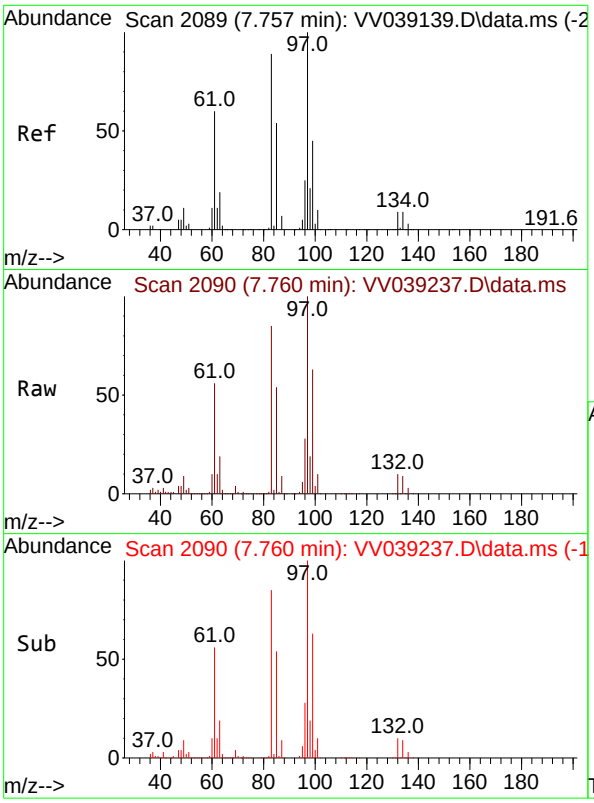


#54
cis-1,3-Dichloropropene
Concen: 51.725 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 75 Resp: 559990

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.5	38.3
39	40.1	33.8	50.6



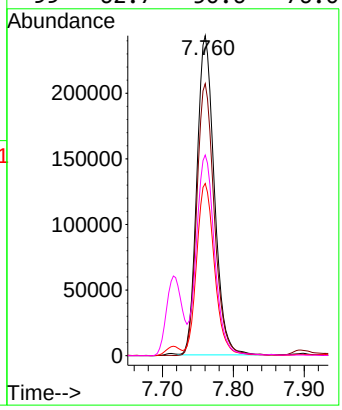


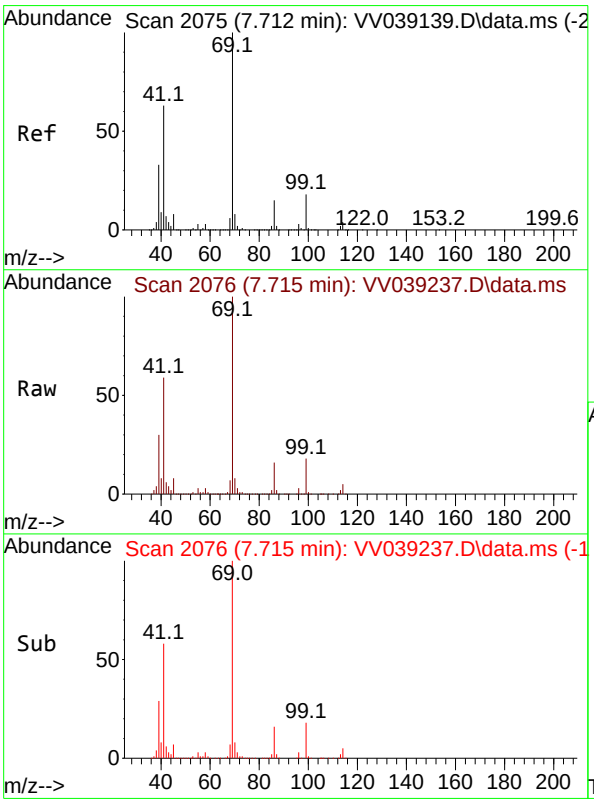
#55
1,1,2-Trichloroethane
Concen: 55.730 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 97 Resp: 414549

Ion	Ratio	Lower	Upper
97	100		
83	85.1	71.1	106.7
85	53.8	44.6	67.0
99	62.7	50.6	76.0

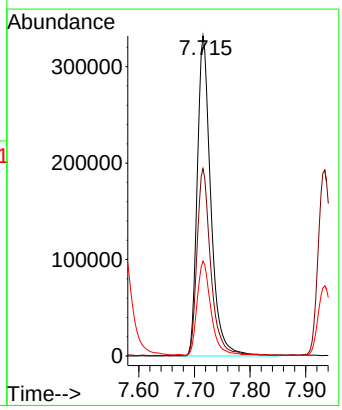


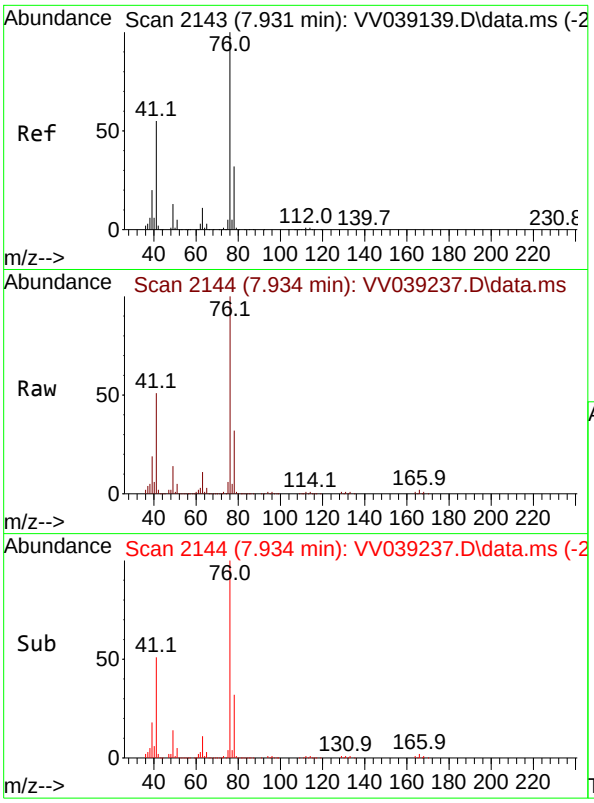


#56
Ethyl methacrylate
Concen: 63.672 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 69 Resp: 562462

Ion	Ratio	Lower	Upper
69	100		
41	59.5	50.7	76.1
39	29.6	26.0	39.0



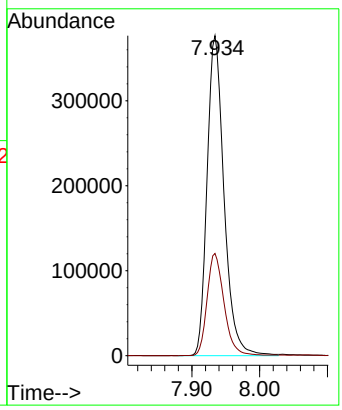


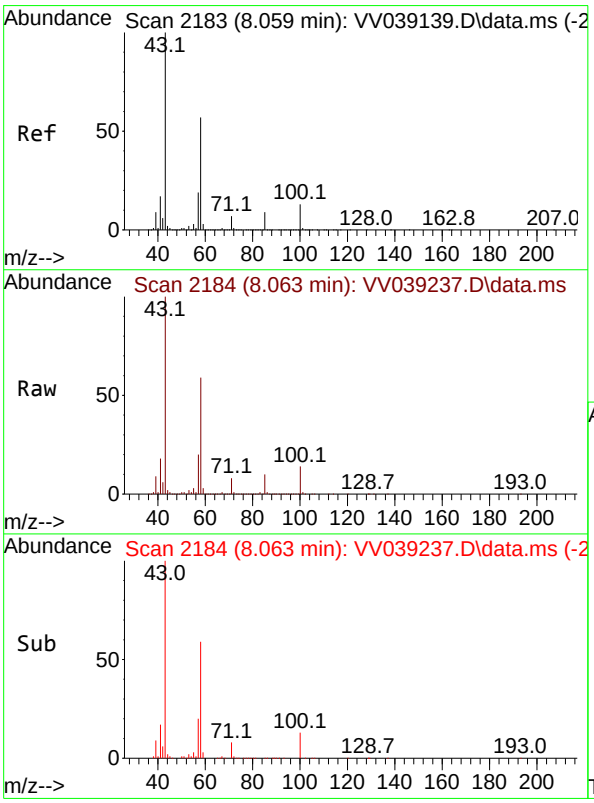
#57
1,3-Dichloropropane
Concen: 55.659 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 76 Resp: 653401

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.1	39.1

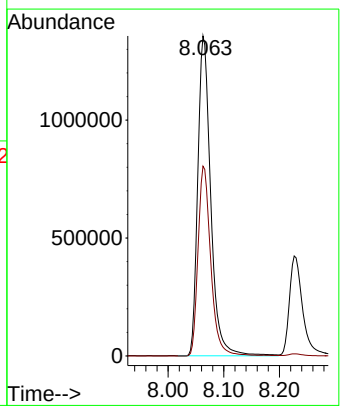


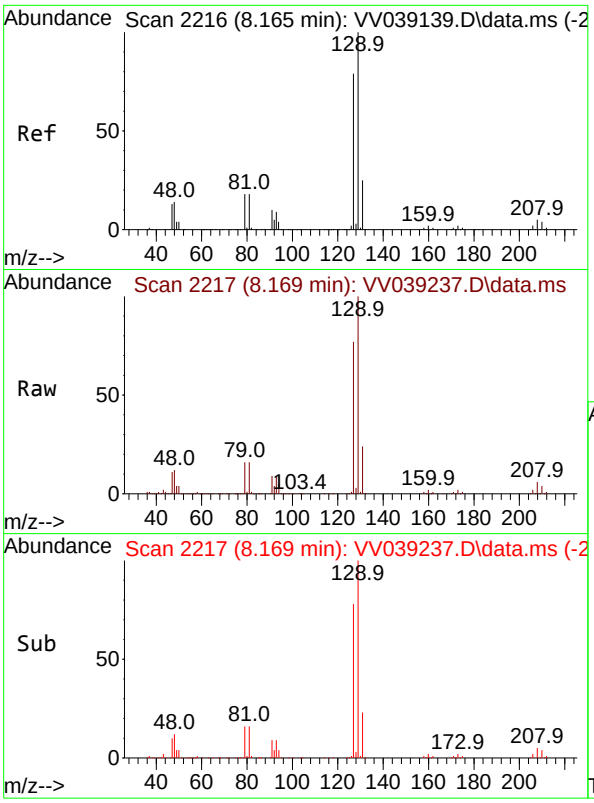


#59
2-Hexanone
Concen: 283.389 ug/l
RT: 8.063 min Scan# 2184
Delta R.T. 0.004 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 43 Resp: 2190138

Ion	Ratio	Lower	Upper
43	100		
58	58.4	28.3	85.0



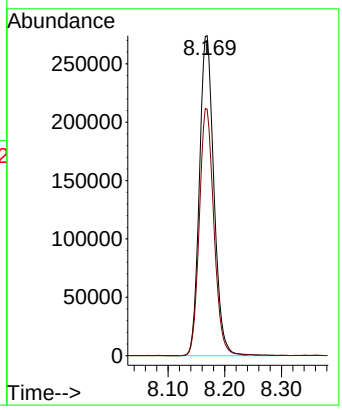


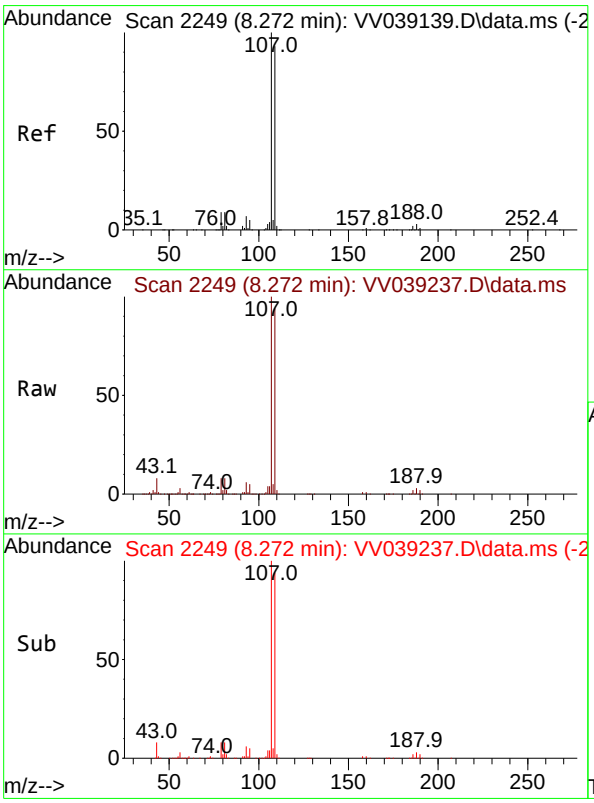
#60
Dibromochloromethane
Concen: 57.553 ug/l
RT: 8.169 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:129 Resp: 487809

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.9

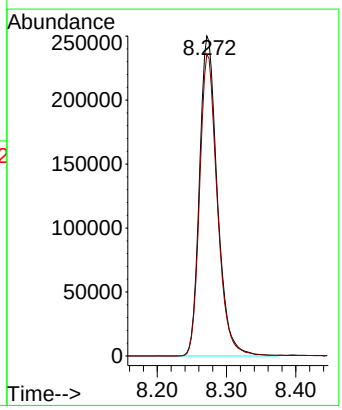


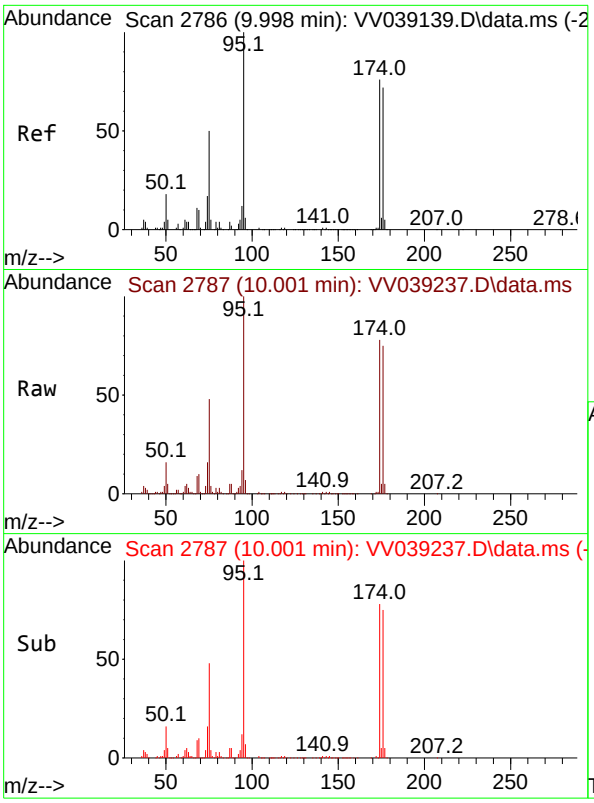


#61
1,2-Dibromoethane
Concen: 58.729 ug/l
RT: 8.272 min Scan# 2249
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:107 Resp: 446765

Ion	Ratio	Lower	Upper
107	100		
109	93.4	74.6	112.0



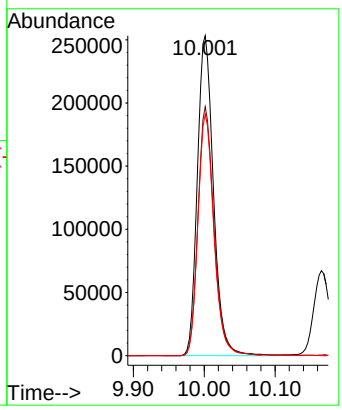


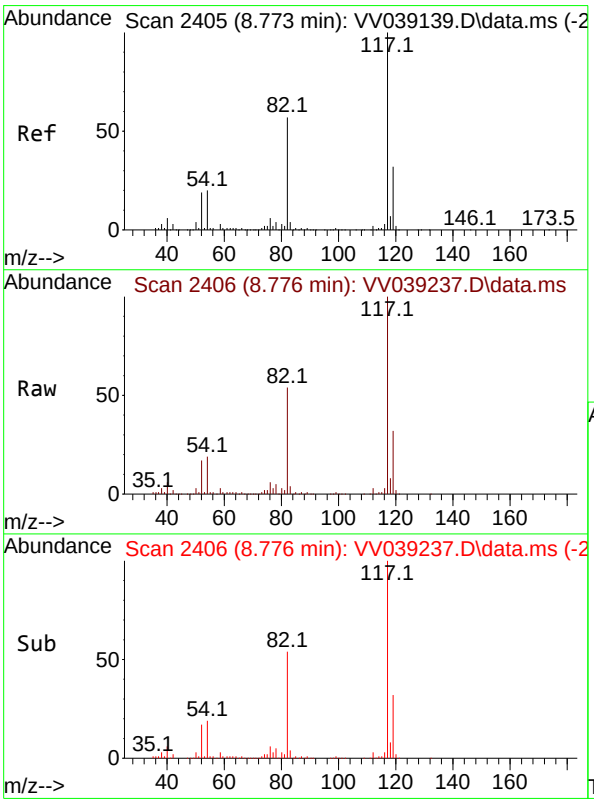
#62
4-Bromofluorobenzene
Concen: 57.067 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 95 Resp: 400996

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	150.4
176	74.4	0.0	144.2

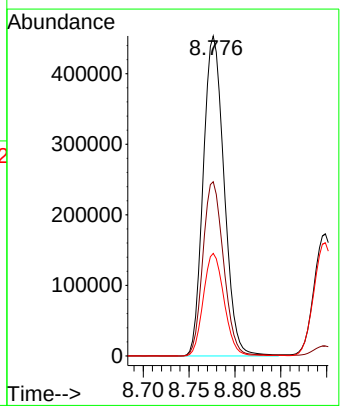


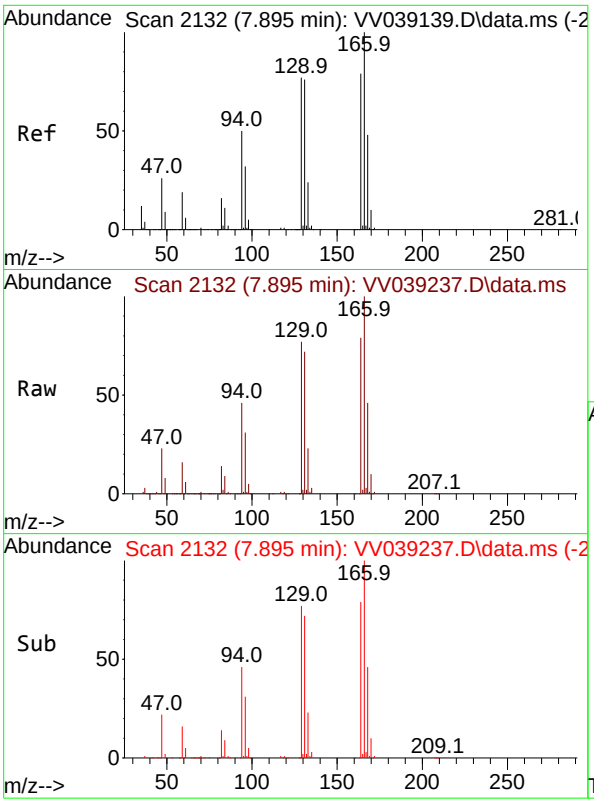


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:117 Resp: 717971

Ion	Ratio	Lower	Upper
117	100		
82	54.4	45.4	68.2
119	32.1	25.6	38.4



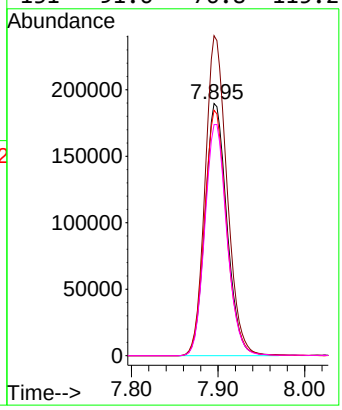


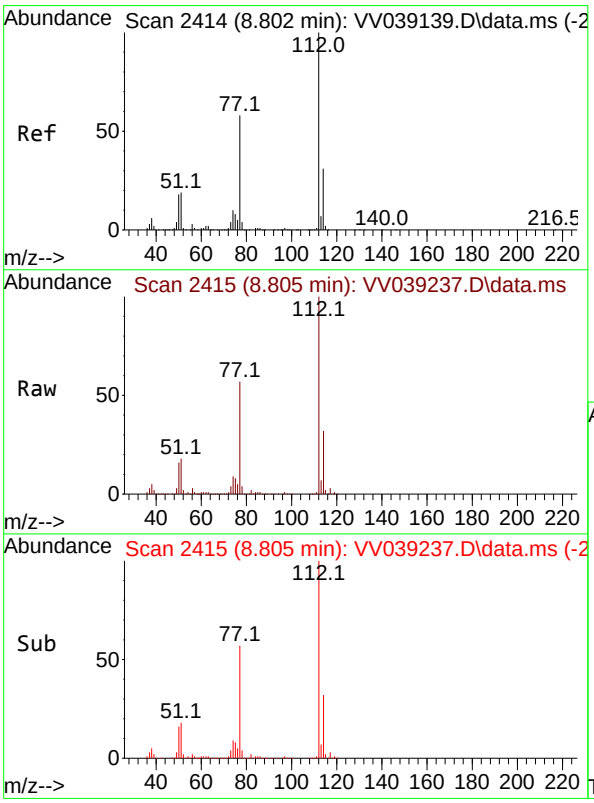
#64
Tetrachloroethene
Concen: 55.385 ug/l
RT: 7.895 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:164 Resp: 333065

Ion	Ratio	Lower	Upper
164	100		
166	126.9	101.6	152.4
129	97.4	78.5	117.7
131	91.6	76.8	115.2

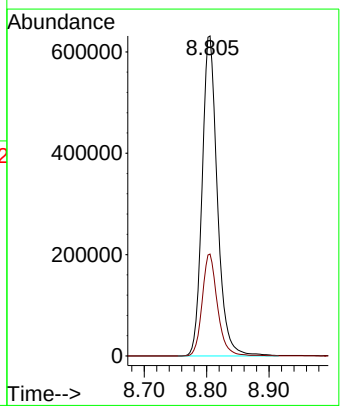


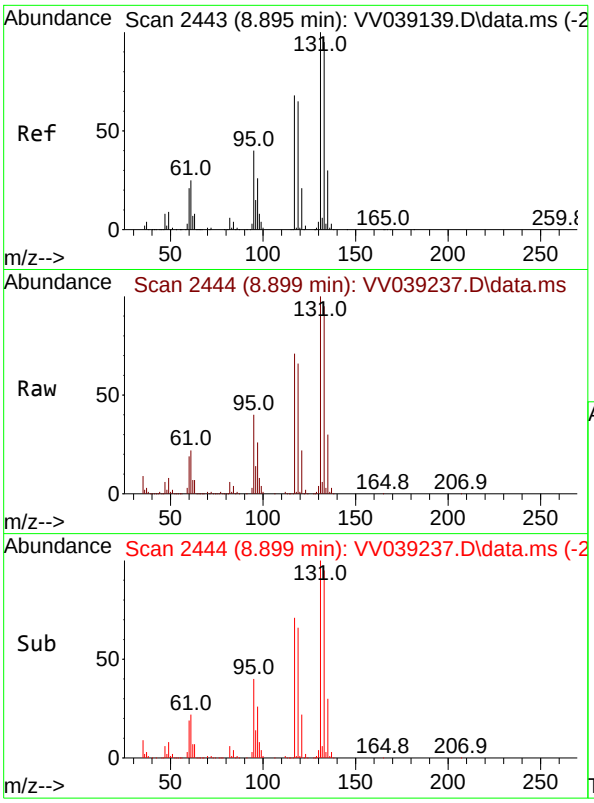


#65
Chlorobenzene
Concen: 53.614 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:112 Resp: 1072211

Ion	Ratio	Lower	Upper
112	100		
114	31.9	24.6	37.0



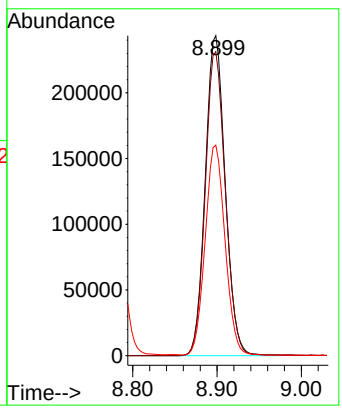


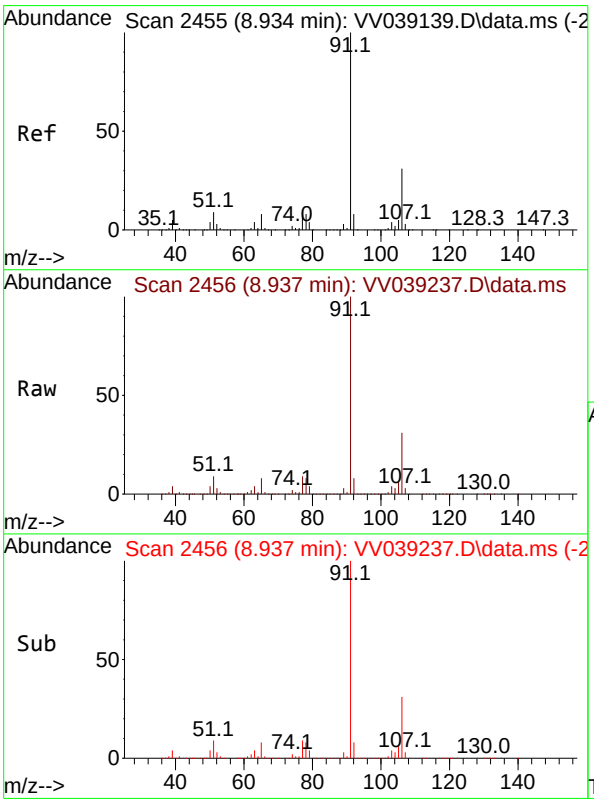
#66
1,1,1,2-Tetrachloroethane
Concen: 55.549 ug/l
RT: 8.899 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:131 Resp: 401399

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.3	141.8
119	65.4	33.3	99.8

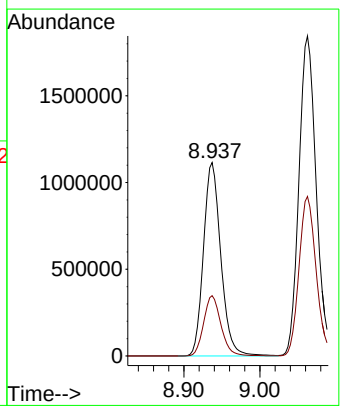


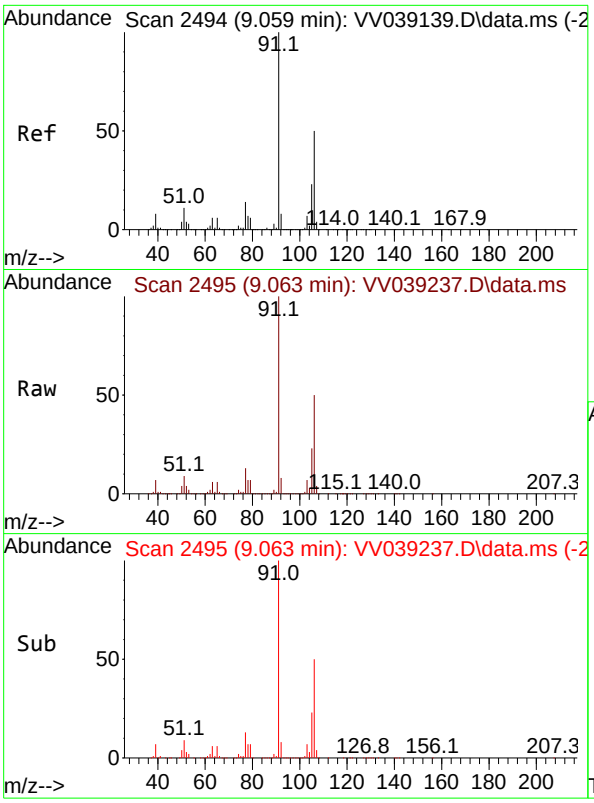


#67
Ethyl Benzene
Concen: 58.400 ug/l
RT: 8.937 min Scan# 2456
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 91 Resp: 1767918

Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.6	37.0



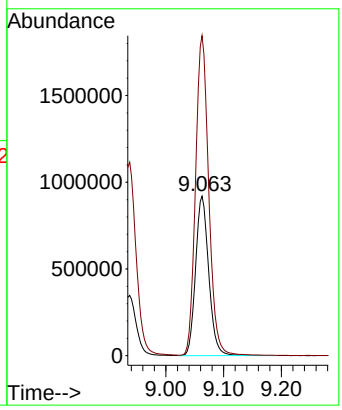


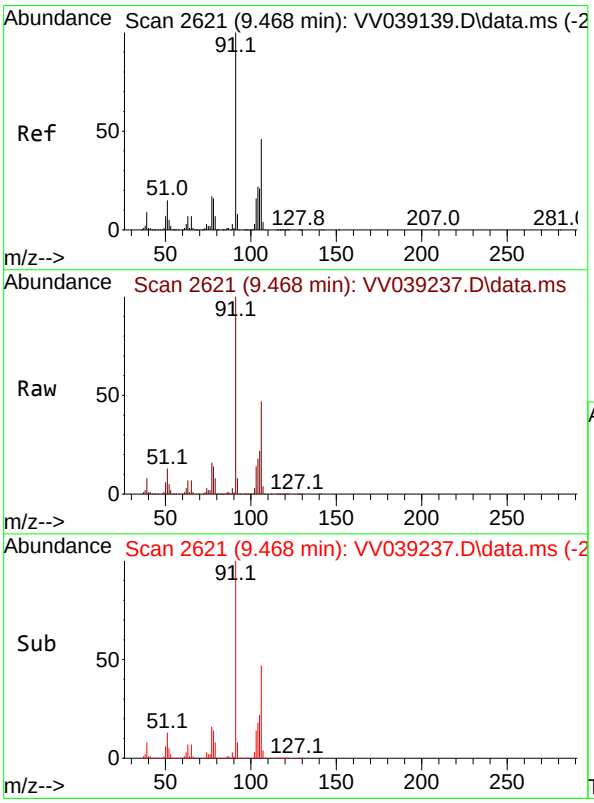
#68
m/p-Xylenes
Concen: 124.490 ug/l
RT: 9.063 min Scan# 24
Delta R.T. 0.004 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:106 Resp: 1454532

Ion	Ratio	Lower	Upper
106	100		
91	200.6	162.5	243.7

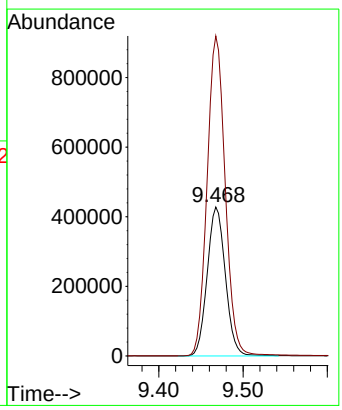


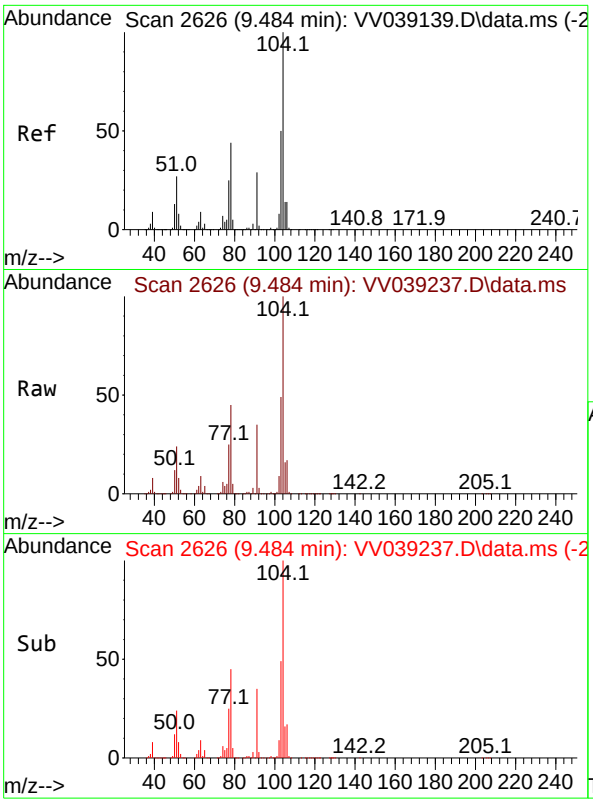


#69
o-Xylene
Concen: 62.089 ug/l
RT: 9.468 min Scan# 2621
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:106 Resp: 642334

Ion	Ratio	Lower	Upper
106	100		
91	214.1	109.1	327.3



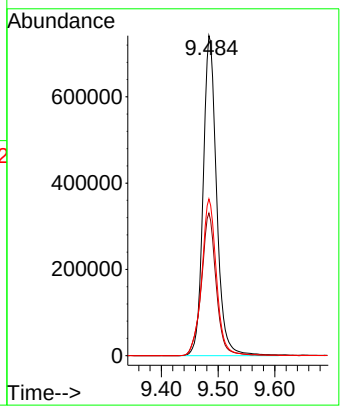


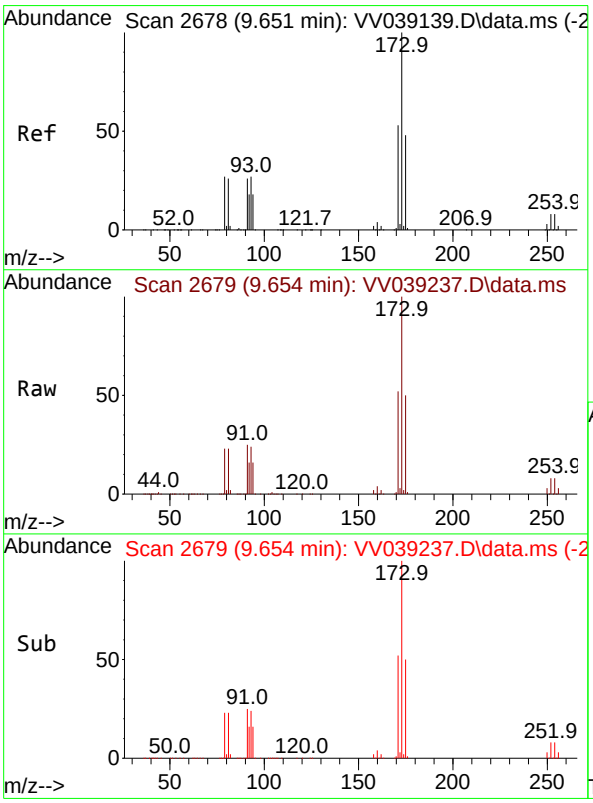
#70
Styrene
Concen: 55.861 ug/l
RT: 9.484 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:104 Resp: 1227294

Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.8	59.6
103	53.4	43.4	65.2

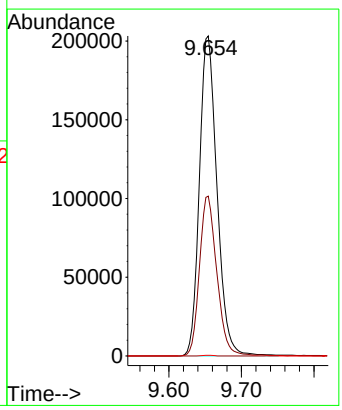


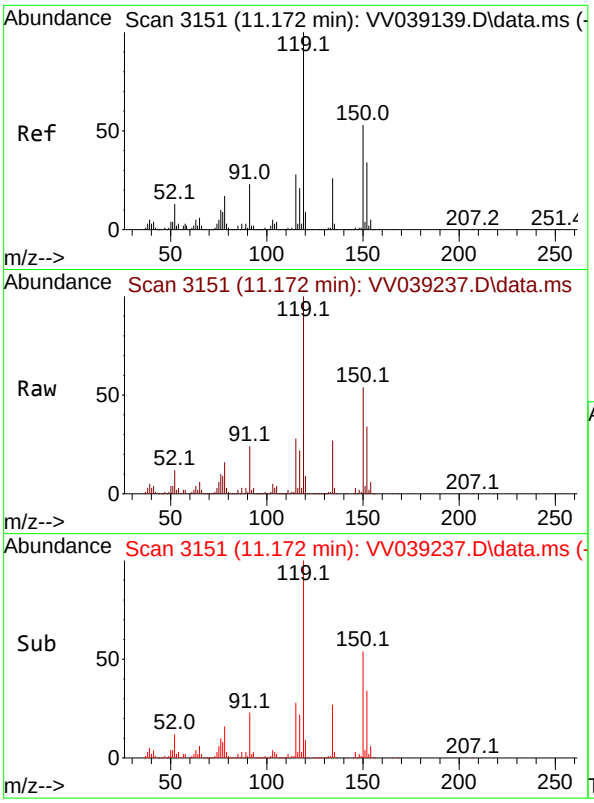


#71
Bromoform
Concen: 60.678 ug/l
RT: 9.654 min Scan# 2679
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:173 Resp: 342488

Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.9	71.7
254	0.1	0.1	0.1#



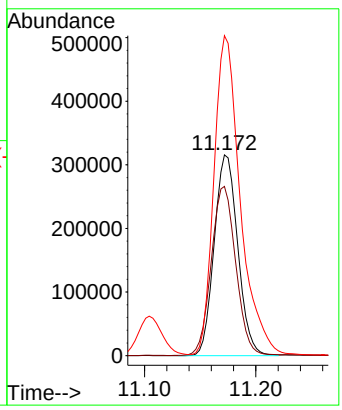


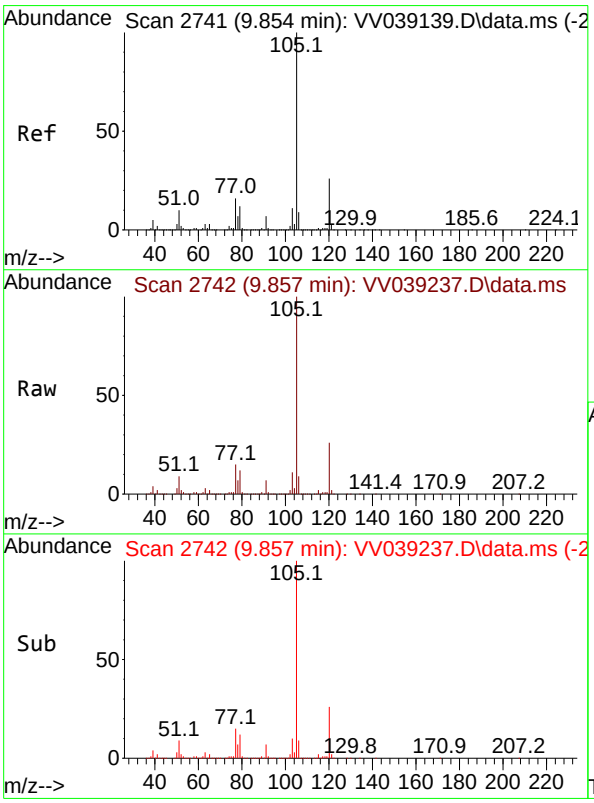
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:152 Resp: 463779

Ion	Ratio	Lower	Upper
152	100		
115	87.6	44.8	134.4
150	178.9	0.0	353.8

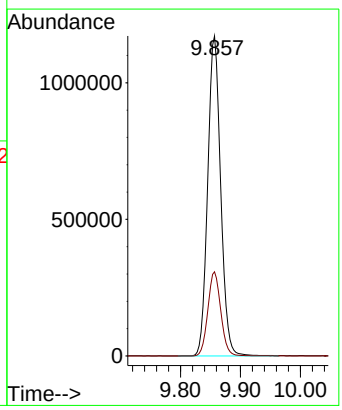


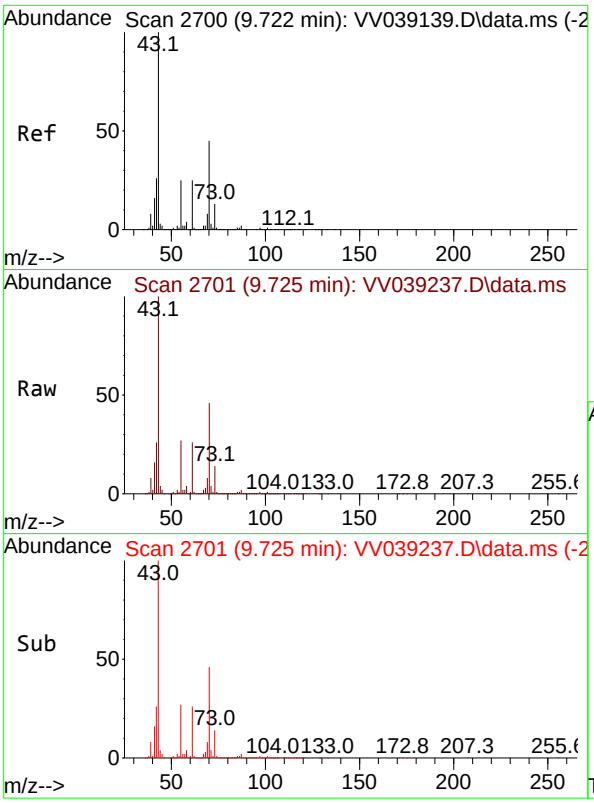


#73
Isopropylbenzene
Concen: 52.393 ug/l
RT: 9.857 min Scan# 2742
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:105 Resp: 1762396

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.1	39.1



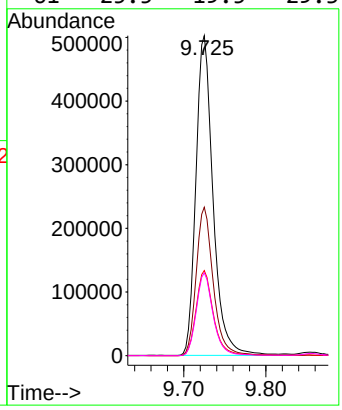


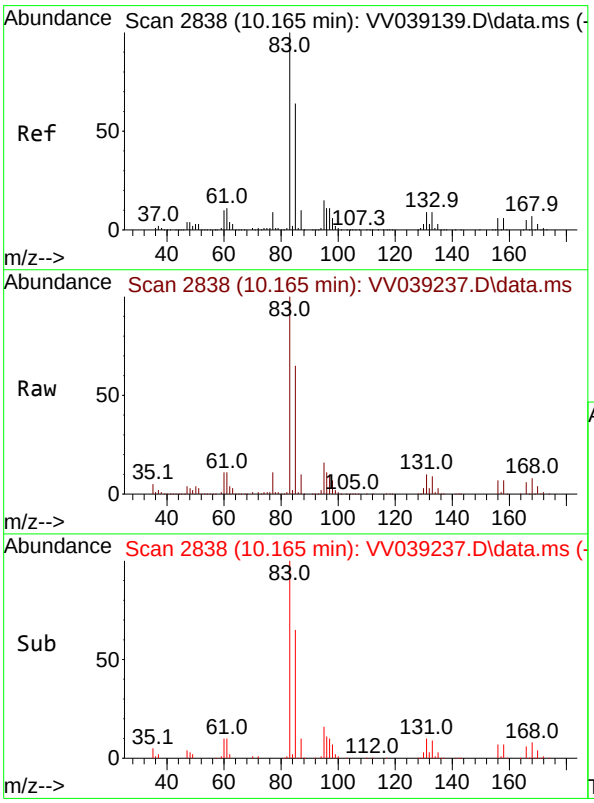
#74
N-amyl acetate
Concen: 54.489 ug/l
RT: 9.725 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 43 Resp: 731113

Ion	Ratio	Lower	Upper
43	100		
70	46.3	35.4	53.0
55	27.0	20.6	30.8
61	25.5	19.5	29.3

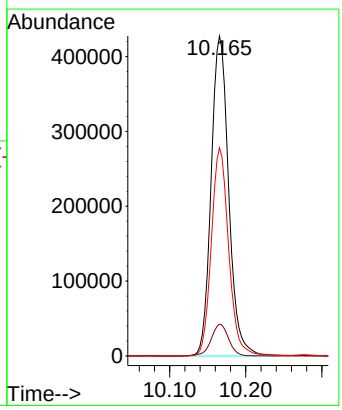


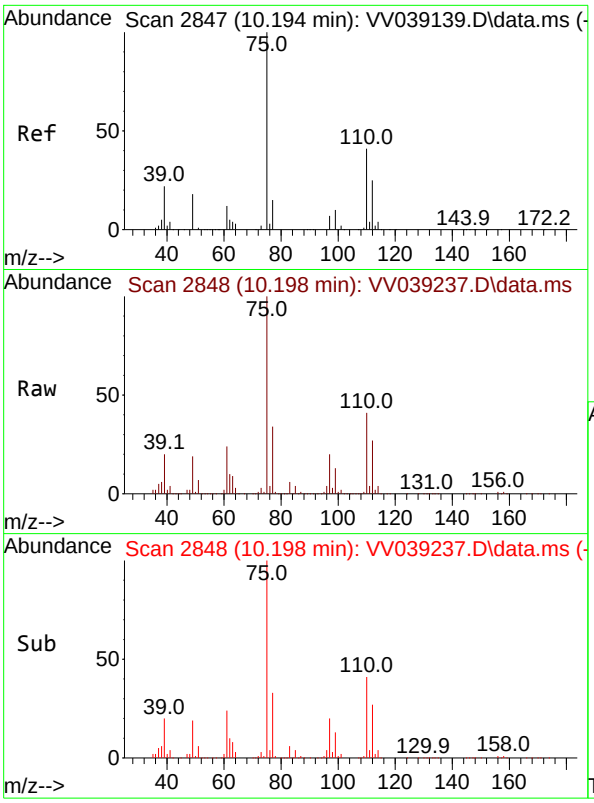


#75
1,1,2,2-Tetrachloroethane
Concen: 46.515 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 83 Resp: 685568

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.5	13.7
85	64.3	31.9	95.9



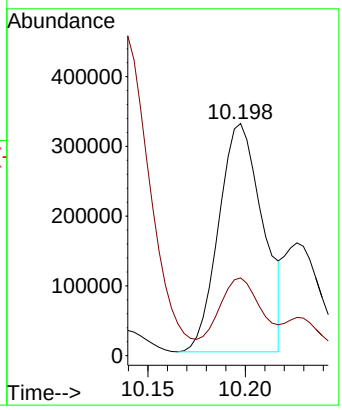


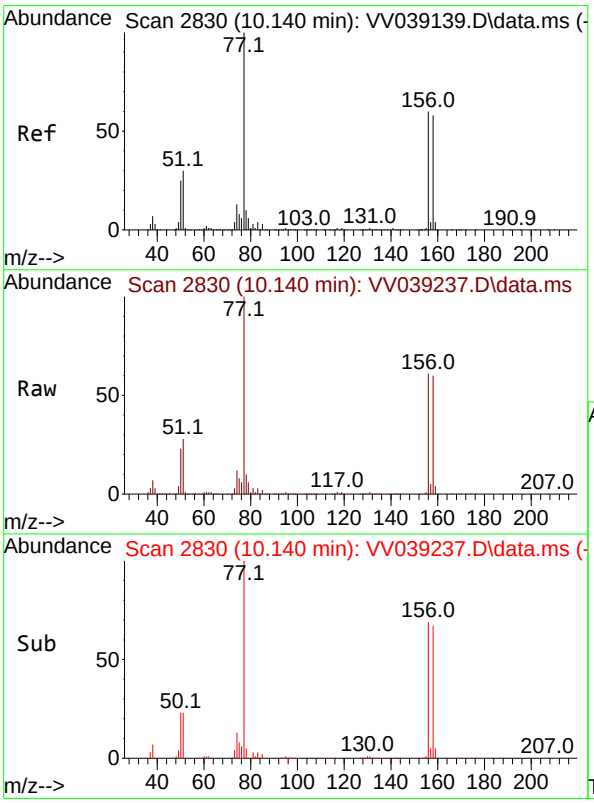
#76
1,2,3-Trichloropropane
Concen: 48.805 ug/l
RT: 10.198 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 75 Resp: 515358

Ion	Ratio	Lower	Upper
75	100		
77	23.1	11.3	33.8

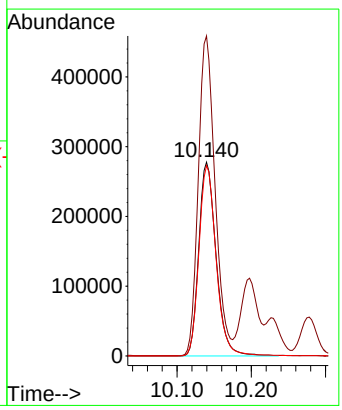


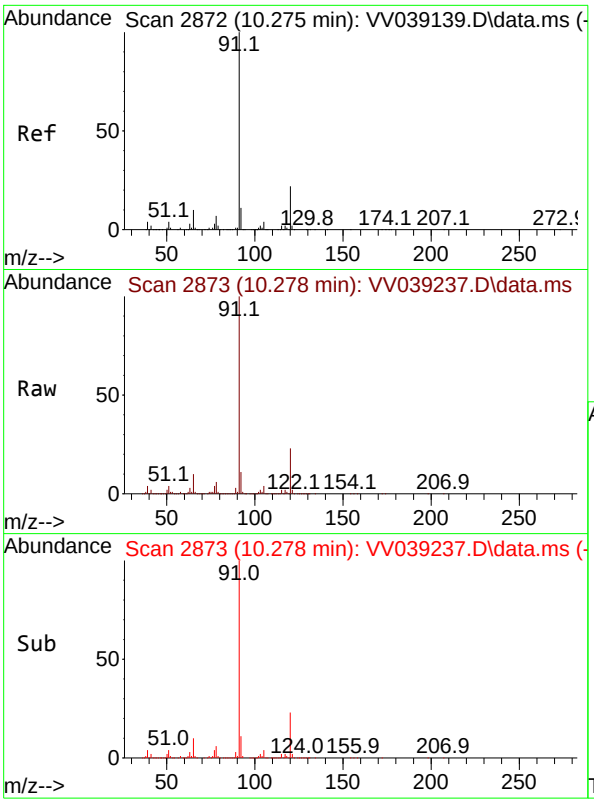


#77
Bromobenzene
Concen: 51.546 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:156 Resp: 449861

Ion	Ratio	Lower	Upper
156	100		
77	160.3	83.4	250.1
158	98.1	48.8	146.4



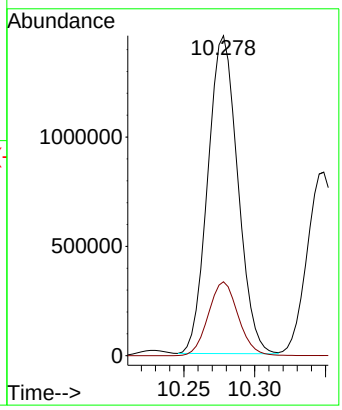


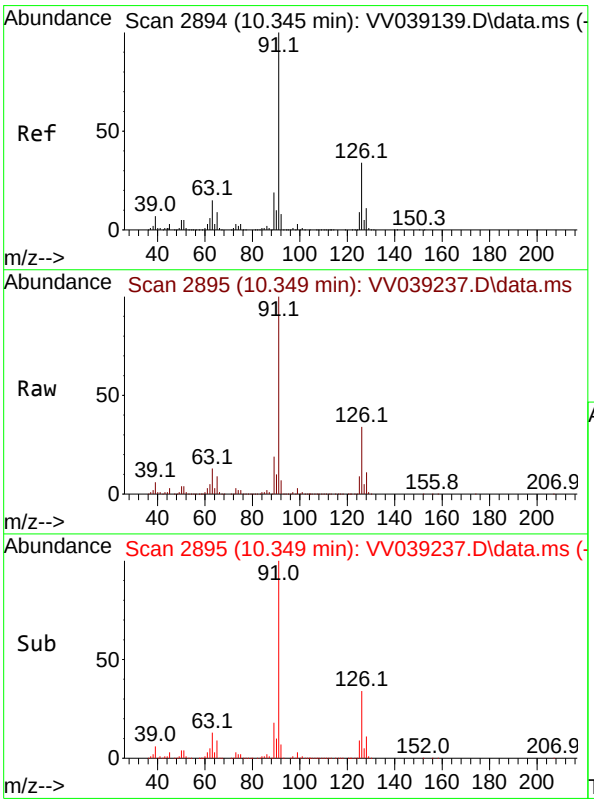
#78
n-propylbenzene
Concen: 52.135 ug/l
RT: 10.278 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 91 Resp: 2135598

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.1	33.3

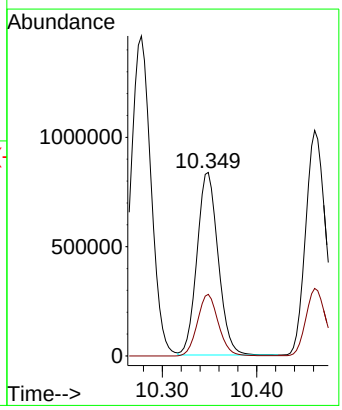


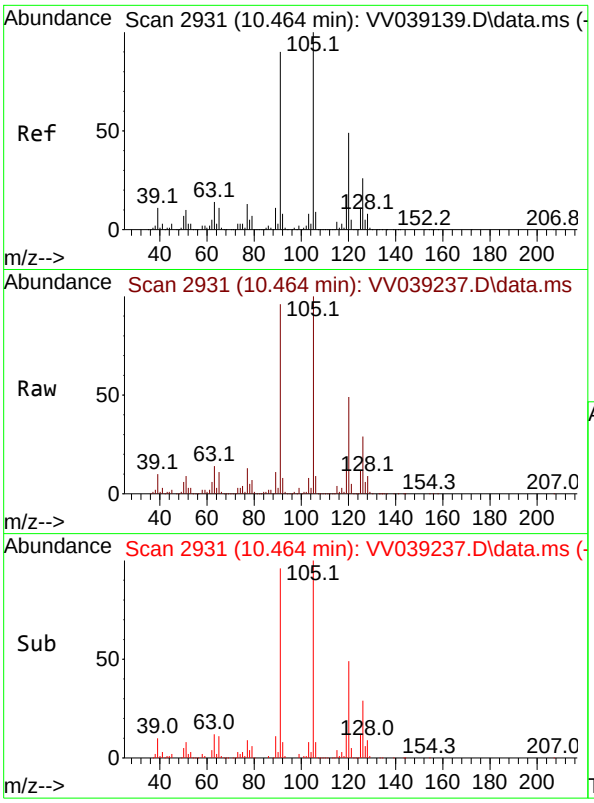


#79
2-Chlorotoluene
Concen: 52.883 ug/l
RT: 10.349 min Scan# 2895
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 91 Resp: 1296224

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.7	50.0



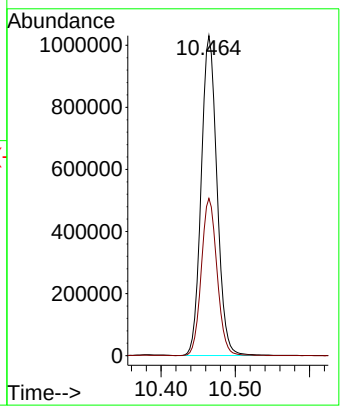


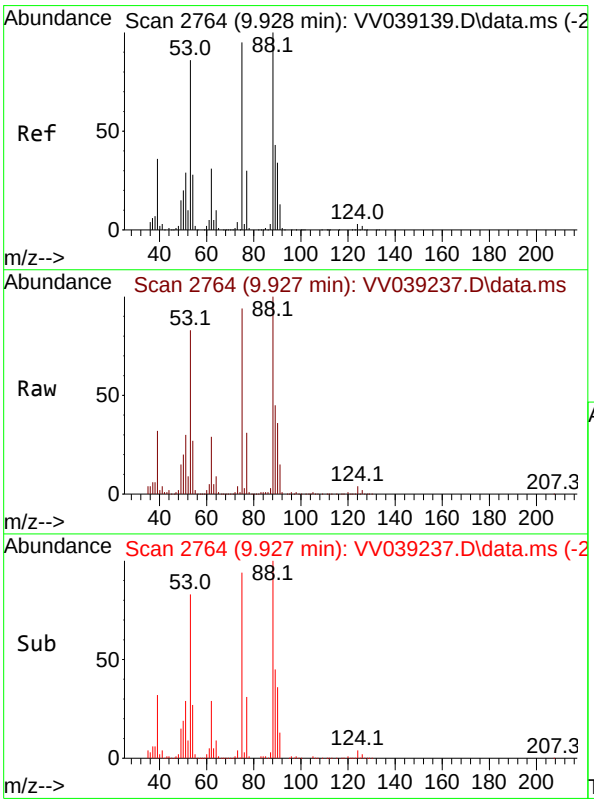
#80
1,3,5-Trimethylbenzene
Concen: 54.405 ug/l
RT: 10.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:105 Resp: 1521131

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.3	72.8

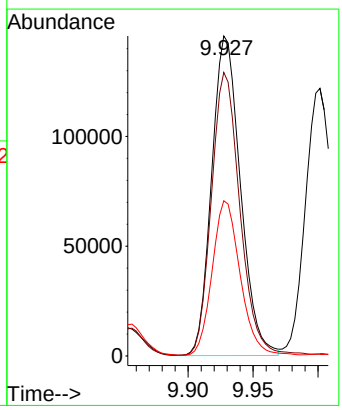


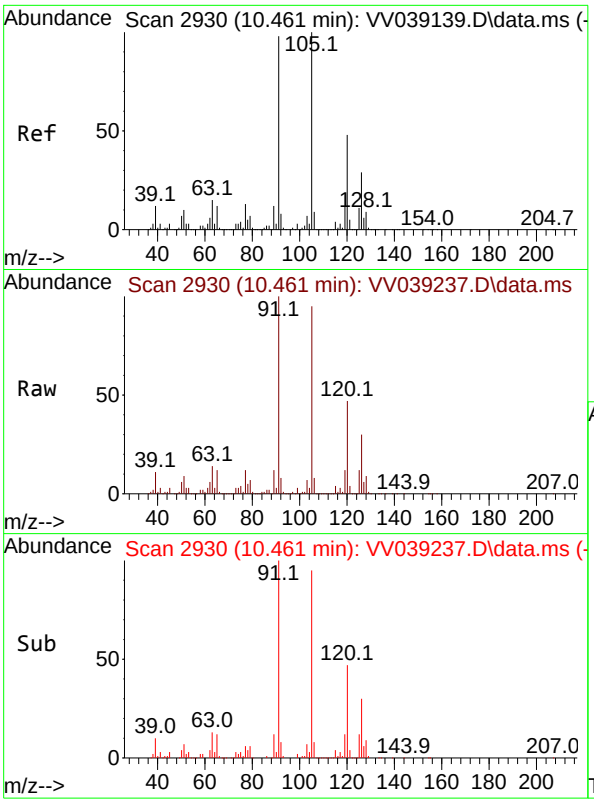


#81
trans-1,4-Dichloro-2-butene
Concen: 50.999 ug/l
RT: 9.927 min Scan# 2764
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 75 Resp: 224319

Ion	Ratio	Lower	Upper
75	100		
53	87.9	72.5	108.7
89	47.0	37.2	55.8



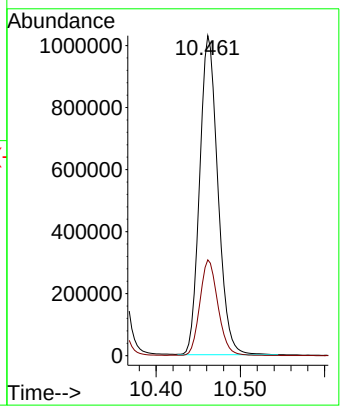


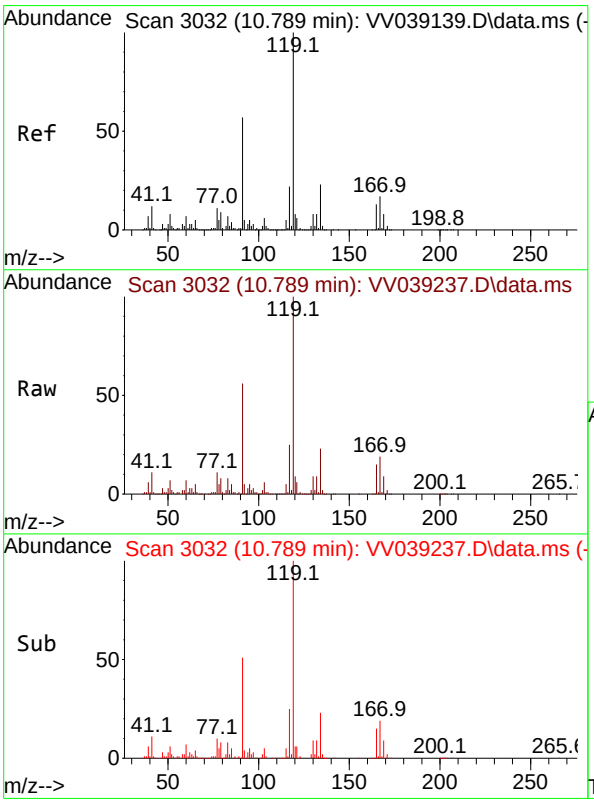
#82
4-Chlorotoluene
Concen: 54.545 ug/l
RT: 10.461 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 91 Resp: 1550297

Ion	Ratio	Lower	Upper
91	100		
126	30.0	14.5	43.6

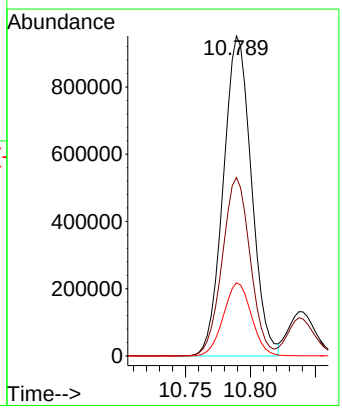


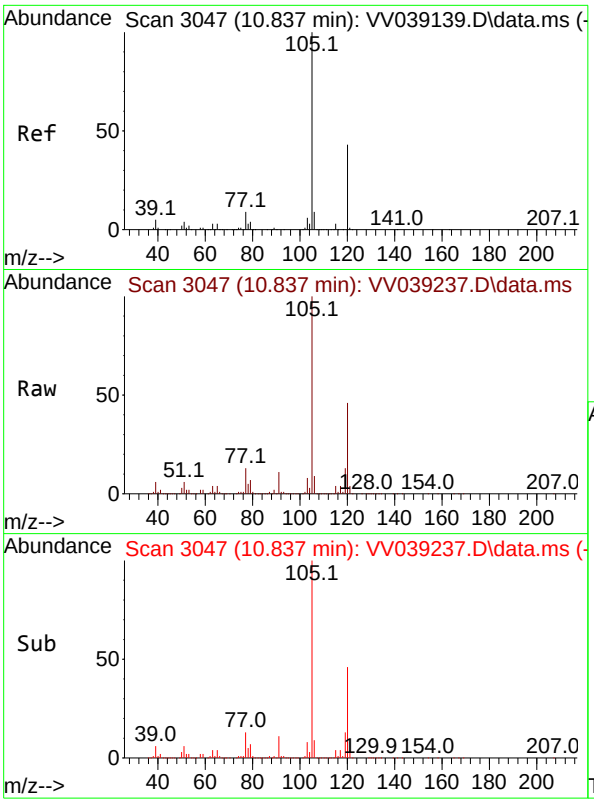


#83
tert-Butylbenzene
Concen: 51.394 ug/l
RT: 10.789 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:119 Resp: 1432871

Ion	Ratio	Lower	Upper
119	100		
91	55.3	28.5	85.6
134	22.8	11.5	34.4



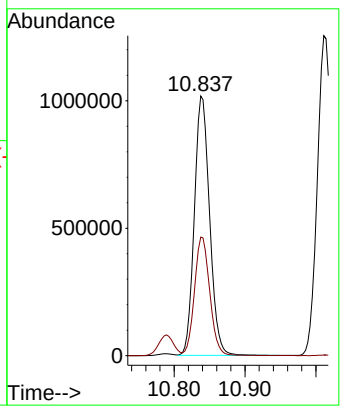


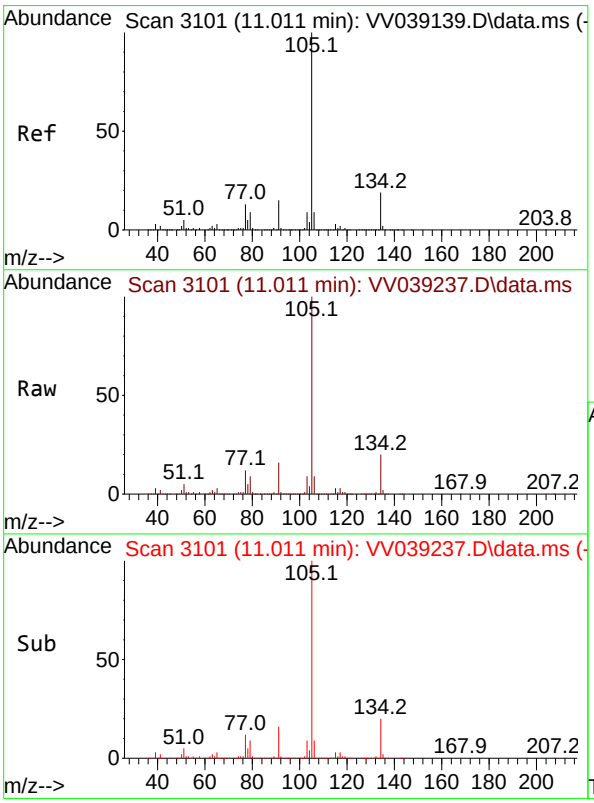
#84
1,2,4-Trimethylbenzene
Concen: 56.079 ug/l
RT: 10.837 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:105 Resp: 1522222

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.4	67.2

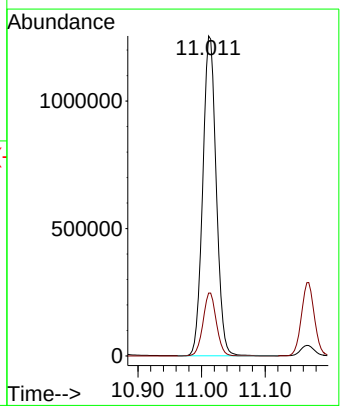


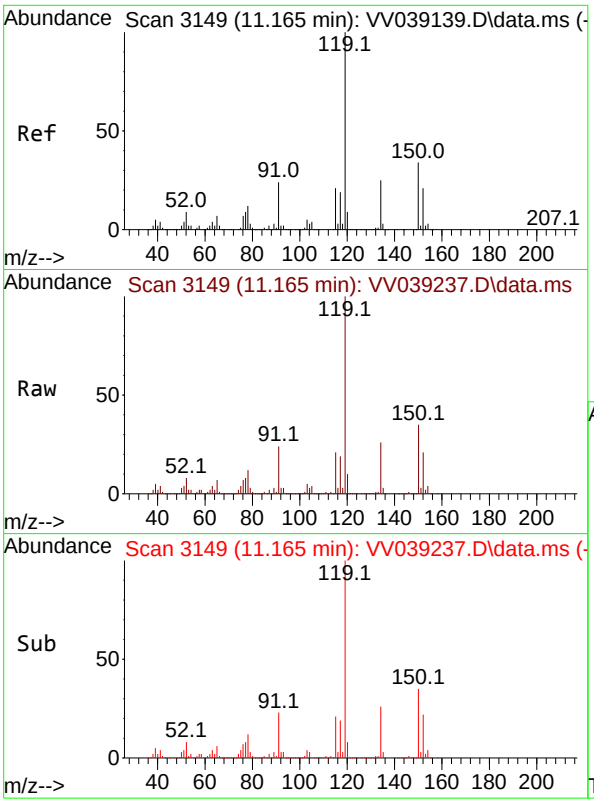


#85
sec-Butylbenzene
Concen: 49.697 ug/l
RT: 11.011 min Scan# 3101
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:105 Resp: 1837748

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.6	28.8



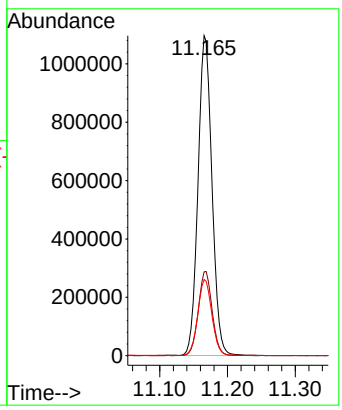


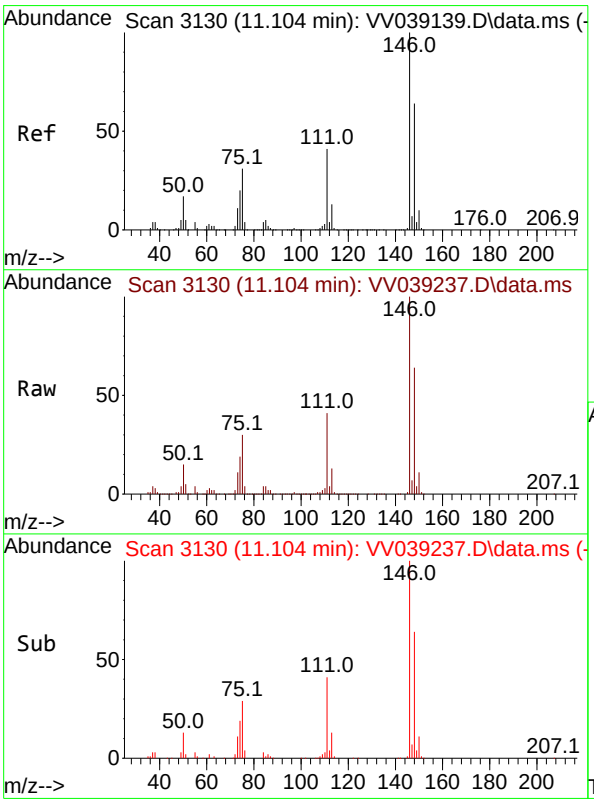
#86
p-Isopropyltoluene
Concen: 50.879 ug/l
RT: 11.165 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:119 Resp: 1565969

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.7	38.0
91	24.0	12.0	36.1

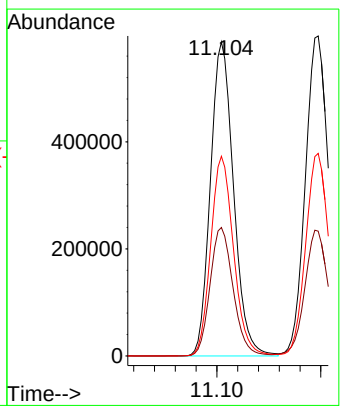


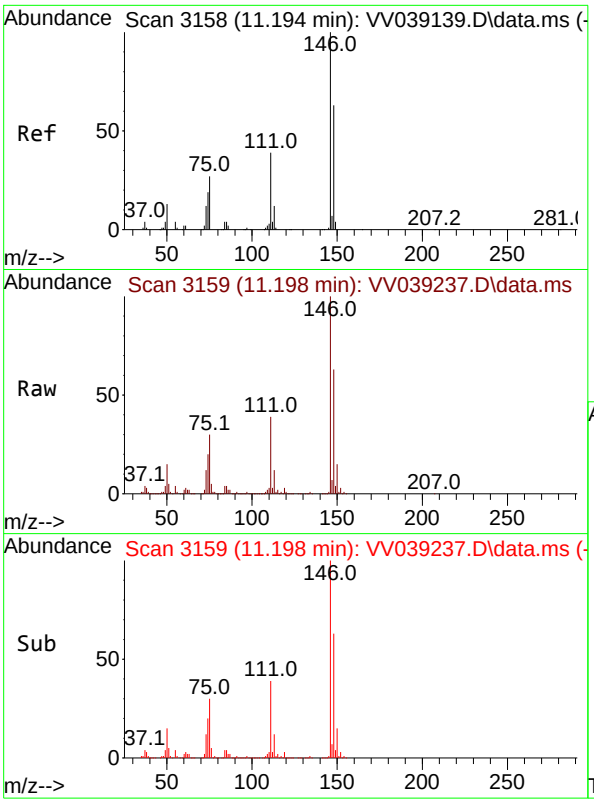


#87
1,3-Dichlorobenzene
Concen: 51.316 ug/l
RT: 11.104 min Scan# 3130
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:146 Resp: 906378

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.9	62.8
148	62.9	31.8	95.3



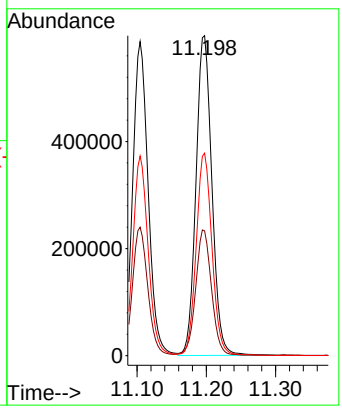


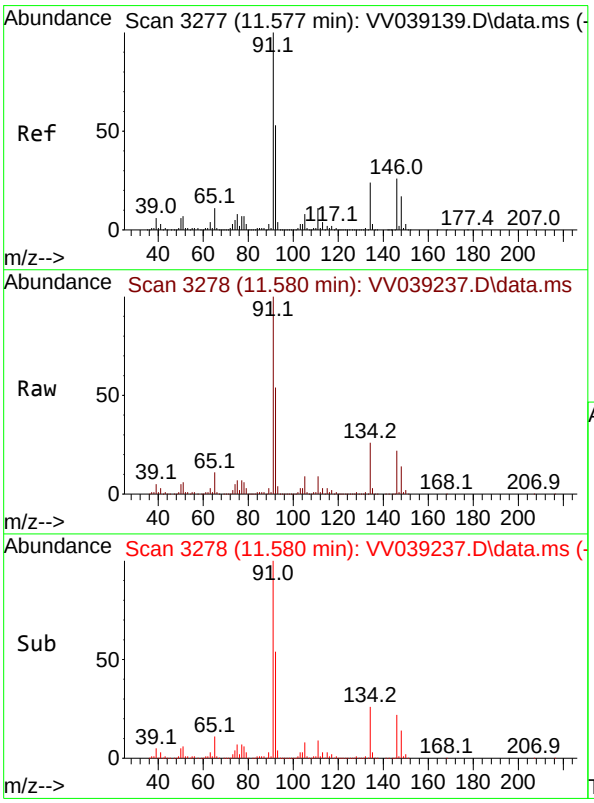
#88
1,4-Dichlorobenzene
Concen: 49.260 ug/l
RT: 11.198 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:146 Resp: 954552

Ion	Ratio	Lower	Upper
146	100		
111	39.1	20.3	60.8
148	62.9	31.4	94.2

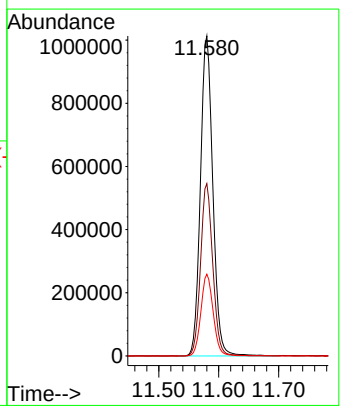


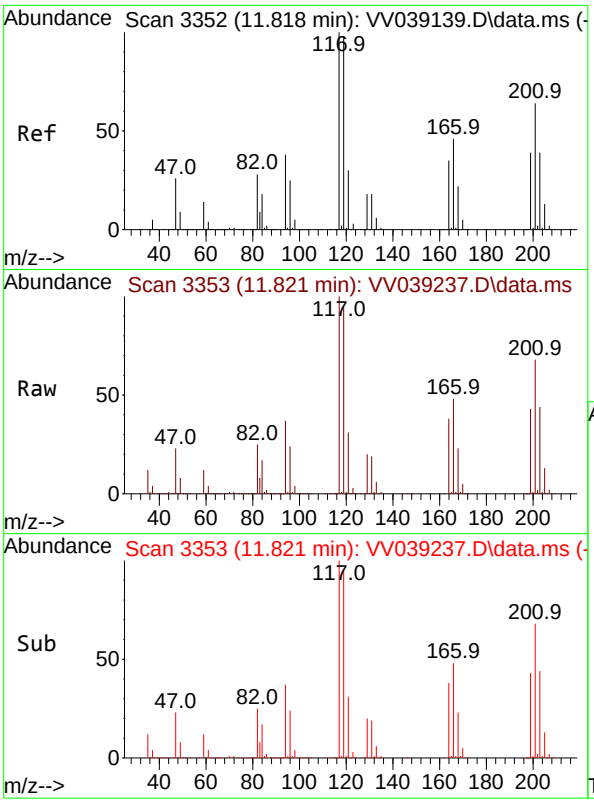


#89
n-Butylbenzene
Concen: 49.707 ug/l
RT: 11.580 min Scan# 3278
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 91 Resp: 1461115

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.6	79.8
134	25.3	12.1	36.3



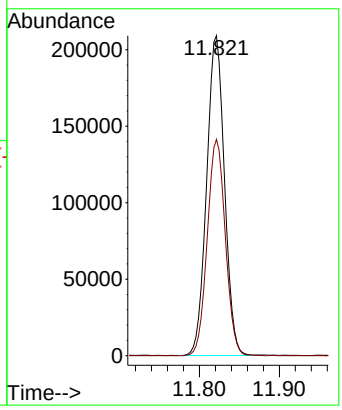


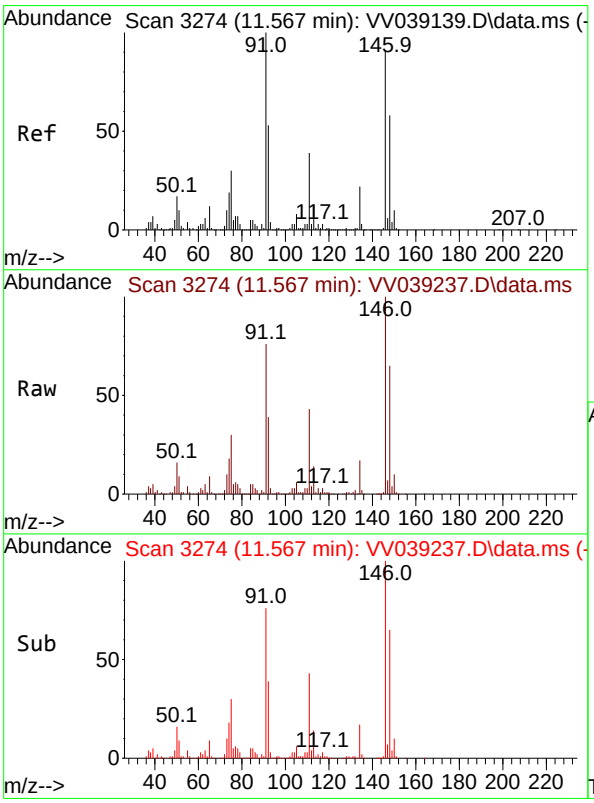
#90
Hexachloroethane
Concen: 42.885 ug/l
RT: 11.821 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:117 Resp: 325035

Ion	Ratio	Lower	Upper
117	100		
201	68.3	32.3	96.8

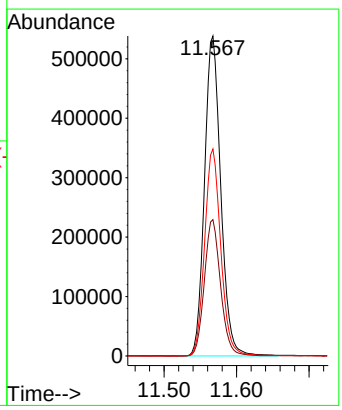


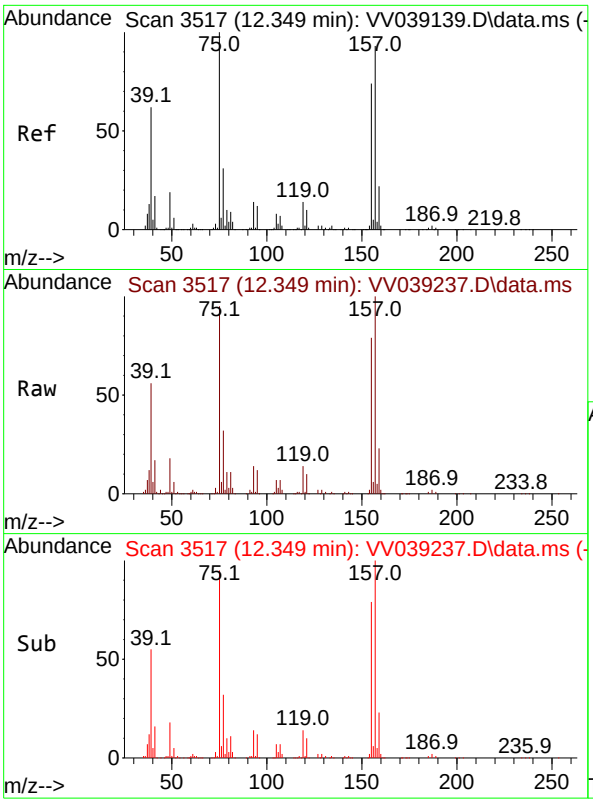


#91
1,2-Dichlorobenzene
Concen: 50.867 ug/l
RT: 11.567 min Scan# 3274
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:146 Resp: 839410

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.5	64.5
148	64.4	31.9	95.7



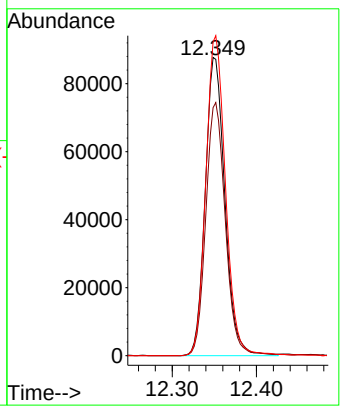


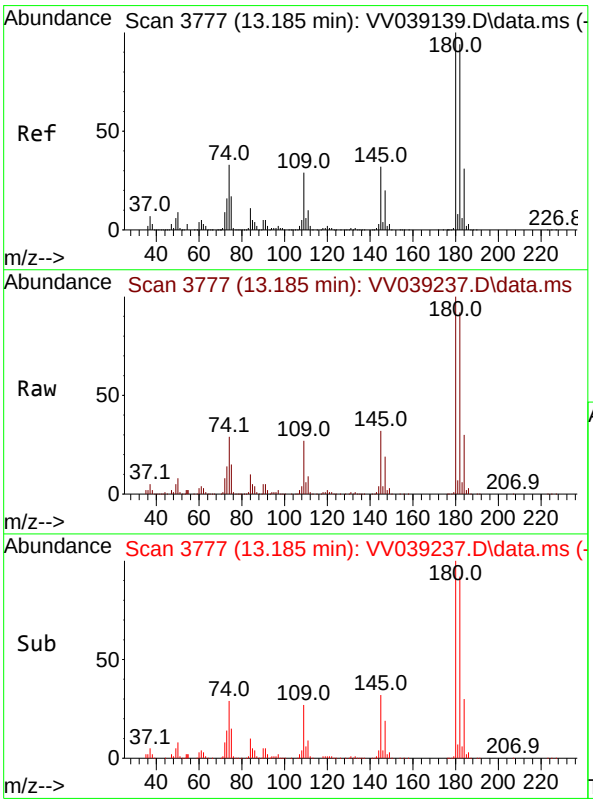
#92
1,2-Dibromo-3-Chloropropane
Concen: 53.576 ug/l
RT: 12.349 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion: 75 Resp: 142548

Ion	Ratio	Lower	Upper
75	100		
155	84.4	38.6	115.8
157	107.2	49.5	148.3

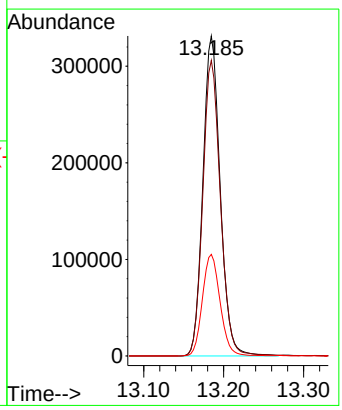


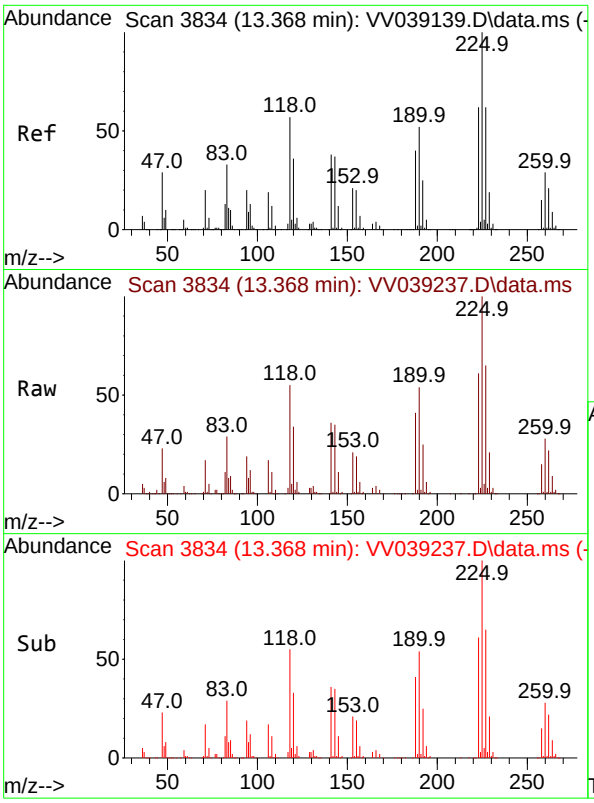


#93
1,2,4-Trichlorobenzene
Concen: 52.772 ug/l
RT: 13.185 min Scan# 3777
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:180 Resp: 499193

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.4
145	32.5	16.3	48.8



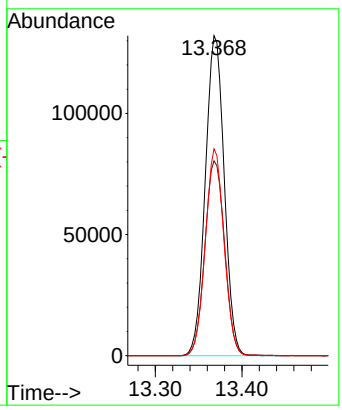


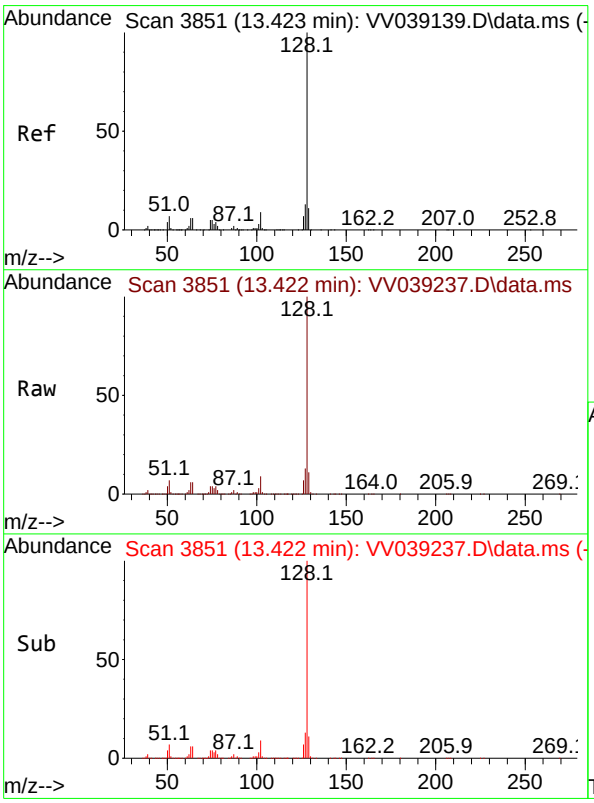
#94
Hexachlorobutadiene
Concen: 40.785 ug/l
RT: 13.368 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:225 Resp: 200469

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.6	94.7
227	63.9	31.8	95.4

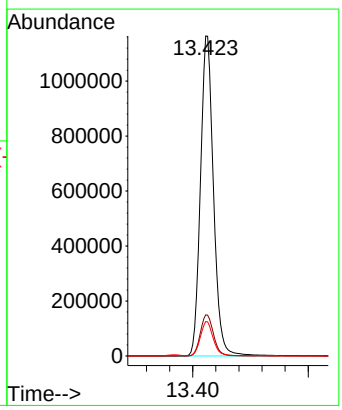


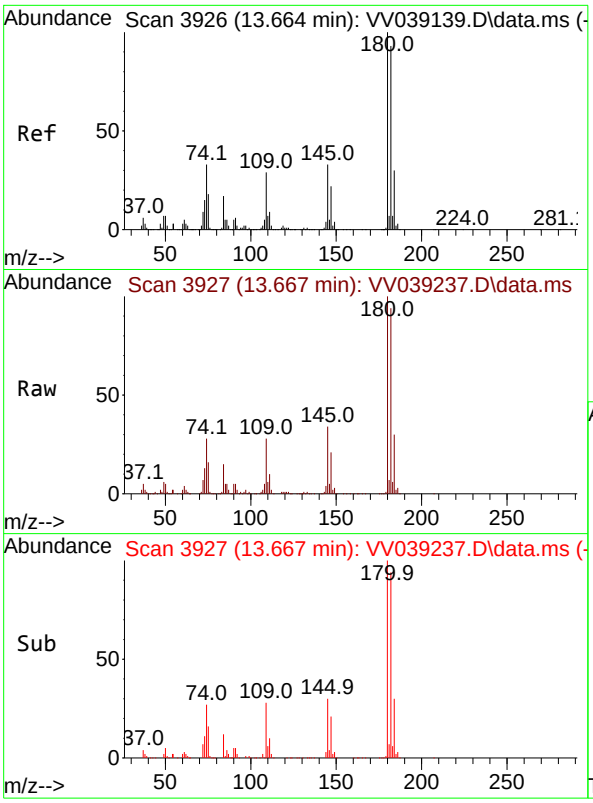


#95
Naphthalene
Concen: 59.545 ug/l
RT: 13.422 min Scan# 3851
Delta R.T. -0.001 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:128 Resp: 1820572

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	10.5	8.6	13.0



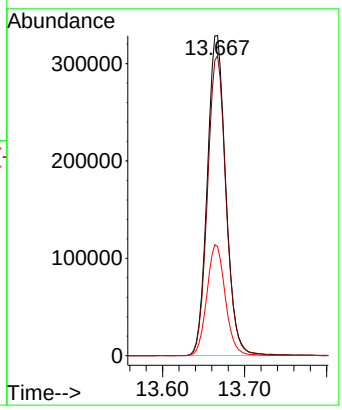


#96
1,2,3-Trichlorobenzene
Concen: 53.435 ug/l
RT: 13.667 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MS

Tgt Ion:180 Resp: 516977

Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.9	140.8
145	34.6	17.0	51.0



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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725MSD	SDG No.:	Q3195
Lab Sample ID:	Q3195-21MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039238.D	1	09/29/25 17:38	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	47.8		0.22	1.00	ug/L
74-87-3	Chloromethane	40.7		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	43.1		0.26	1.00	ug/L
74-83-9	Bromomethane	44.7		1.40	5.00	ug/L
75-00-3	Chloroethane	46.0		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	44.9		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	47.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	45.7		0.23	1.00	ug/L
67-64-1	Acetone	190		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	39.6		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	47.3		0.16	1.00	ug/L
79-20-9	Methyl Acetate	47.9		0.27	1.00	ug/L
75-09-2	Methylene Chloride	50.1		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	45.7		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	43.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	38.8		1.50	5.00	ug/L
78-93-3	2-Butanone	220		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	47.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	47.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	45.1		0.22	1.00	ug/L
67-66-3	Chloroform	43.0		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	43.6		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	45.7		0.16	1.00	ug/L
71-43-2	Benzene	49.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	47.1		0.22	1.00	ug/L
79-01-6	Trichloroethene	58.2		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	50.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	48.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	270		0.68	5.00	ug/L
108-88-3	Toluene	53.7		0.14	1.00	ug/L

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725MSD	SDG No.:	Q3195
Lab Sample ID:	Q3195-21MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039238.D	1	09/29/25 17:38	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	53.0		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.2		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	51.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	250		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	52.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	53.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	51.7		0.23	1.00	ug/L
108-90-7	Chlorobenzene	50.3		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	55.1		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	120		0.24	2.00	ug/L
95-47-6	o-Xylene	58.2		0.12	1.00	ug/L
100-42-5	Styrene	52.1		0.15	1.00	ug/L
75-25-2	Bromoform	57.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	49.8		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	43.4		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	48.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	45.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	48.3		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	50.9		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	50.0		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.7		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.2		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	48.8		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.8		77 - 121	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	541000	4.6			
540-36-3	1,4-Difluorobenzene	802000	5.532			
3114-55-4	Chlorobenzene-d5	776000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	497000	11.172			

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

Report of Analysis

Client:	TechLaw Consultants, Inc	Date Collected:	09/17/25
Project:	REAC Commodore	Date Received:	09/25/25
Client Sample ID:	MW-33D-091725MSD	SDG No.:	Q3195
Lab Sample ID:	Q3195-21MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039238.D	1	09/29/25 17:38	VV092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	540727	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	801849	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	776445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	497049	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	338268	43.224	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 86.440%			
35) Dibromofluoromethane	4.500	113	330222	51.227	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 102.460%			
50) Toluene-d8	7.236	98	924513	48.832	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 97.660%			
62) 4-Bromofluorobenzene	10.001	95	442703	56.800	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 113.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	409233	47.809	ug/l	99
3) Chloromethane	1.227	50	374091	40.711	ug/l	99
4) Vinyl Chloride	1.294	62	424340	43.135	ug/l	100
5) Bromomethane	1.494	94	277351	44.723	ug/l	100
6) Chloroethane	1.558	64	268225	46.029	ug/l	100
7) Trichlorofluoromethane	1.725	101	640051	44.938	ug/l	100
8) Diethyl Ether	1.918	74	245588	46.448	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.079	101	400444	47.252	ug/l	97
10) Methyl Iodide	2.195	142	450189	55.784	ug/l	99
11) Tert butyl alcohol	2.571	59	421033	254.549	ug/l	99
12) 1,1-Dichloroethene	2.082	96	372736	45.719	ug/l	92
13) Acrolein	2.008	56	51851	180.660	ug/l	93
14) Allyl chloride	2.355	41	622696	42.759	ug/l	97
15) Acrylonitrile	2.674	53	1186396	223.752	ug/l	98
16) Acetone	2.117	43	924673	187.048	ug/l	96
17) Carbon Disulfide	2.253	76	988393	39.641	ug/l	99
18) Methyl Acetate	2.378	43	554871	47.853	ug/l	96
19) Methyl tert-butyl Ether	2.712	73	1228842	47.301	ug/l	98
20) Methylene Chloride	2.455	84	423573	50.097	ug/l	93
21) trans-1,2-Dichloroethene	2.699	96	396720	45.709	ug/l	96
22) Diisopropyl ether	3.217	45	1219843	43.780	ug/l	98
23) Vinyl Acetate	3.188	43	5263028	215.924	ug/l	97
24) 1,1-Dichloroethane	3.117	63	736796	43.241	ug/l	98
25) 2-Butanone	3.867	43	1389008	221.647	ug/l	97
26) 2,2-Dichloropropane	3.809	77	563462	37.295	ug/l	98
27) cis-1,2-Dichloroethene	3.818	96	458098	47.857	ug/l	95
28) Bromochloromethane	4.146	49	339370	45.116	ug/l	90
29) Tetrahydrofuran	4.240	42	926118	236.103	ug/l	96
30) Chloroform	4.278	83	764253	42.953	ug/l	100
31) Cyclohexane	4.584	56	541266	38.778	ug/l	99
32) 1,1,1-Trichloroethane	4.513	97	670890	43.554	ug/l	97
36) 1,1-Dichloropropene	4.741	75	477402	48.984	ug/l	98
37) Ethyl Acetate	3.976	43	541921	45.824	ug/l	96
38) Carbon Tetrachloride	4.735	117	564742	47.413	ug/l	98
39) Methylcyclohexane	6.047	83	537787	45.693	ug/l	97
40) Benzene	5.008	78	1558660	49.112	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.159	41	254239	47.642	ug/l	96
42) 1,2-Dichloroethane	5.040	62	524185	47.139	ug/l	98
43) Isopropyl Acetate	5.195	43	801758	49.723	ug/l	96
44) Trichloroethene	5.831	130	426325	58.214	ug/l	100
45) 1,2-Dichloropropane	6.088	63	398845	50.561	ug/l	97
46) Dibromomethane	6.223	93	306161	50.709	ug/l	96
47) Bromodichloromethane	6.426	83	604268	48.412	ug/l	98
48) Methyl methacrylate	6.297	41	387316	52.989	ug/l	96
49) 1,4-Dioxane	6.291	88	136656	1158.527	ug/l	99
51) 4-Methyl-2-Pentanone	7.149	43	2894765	272.884	ug/l	98
52) Toluene	7.307	92	987839	53.684	ug/l	98
53) t-1,3-Dichloropropene	7.574	75	576616	53.009	ug/l	99
54) cis-1,3-Dichloropropene	6.947	75	578415	48.168	ug/l	98
55) 1,1,2-Trichloroethane	7.760	97	424550	51.456	ug/l	97
56) Ethyl methacrylate	7.715	69	582543	59.454	ug/l	94
57) 1,3-Dichloropropane	7.934	76	665587	51.116	ug/l	99
59) 2-Hexanone	8.063	43	2155011	251.657	ug/l	97
60) Dibromochloromethane	8.169	129	494699	52.620	ug/l	98
61) 1,2-Dibromoethane	8.272	107	448069	53.102	ug/l	99
64) Tetrachloroethene	7.895	164	336355	51.720	ug/l	98
65) Chlorobenzene	8.805	112	1088354	50.323	ug/l	98
66) 1,1,1,2-Tetrachloroethane	8.895	131	408617	52.289	ug/l	99
67) Ethyl Benzene	8.937	91	1804937	55.133	ug/l	100
68) m/p-Xylenes	9.063	106	1480331	117.156	ug/l	99
69) o-Xylene	9.468	106	651457	58.228	ug/l	99
70) Styrene	9.484	104	1236246	52.111	ug/l	99
71) Bromoform	9.654	173	348675	57.122	ug/l	100
73) Isopropylbenzene	9.857	105	1794634	49.780	ug/l	100
74) N-amyl acetate	9.725	43	730955	50.831	ug/l	96
75) 1,1,2,2-Tetrachloroethane	10.165	83	685760	43.414	ug/l	99
76) 1,2,3-Trichloropropane	10.198	75	513184	45.346	ug/l	98
77) Bromobenzene	10.140	156	458429	49.012	ug/l	96
78) n-propylbenzene	10.278	91	2161429	49.233	ug/l	98
79) 2-Chlorotoluene	10.349	91	1313750	50.010	ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	1550730	51.751	ug/l	99
81) trans-1,4-Dichloro-2-b...	9.927	75	224474	47.618	ug/l	98
82) 4-Chlorotoluene	10.461	91	1565365	51.389	ug/l	99
83) tert-Butylbenzene	10.789	119	1467159	49.102	ug/l	98
84) 1,2,4-Trimethylbenzene	10.837	105	1534040	52.732	ug/l	98
85) sec-Butylbenzene	11.011	105	1857611	46.872	ug/l	99
86) p-Isopropyltoluene	11.165	119	1582644	47.979	ug/l	99
87) 1,3-Dichlorobenzene	11.104	146	913700	48.268	ug/l	100
88) 1,4-Dichlorobenzene	11.194	146	951037	45.793	ug/l	99
89) n-Butylbenzene	11.580	91	1481352	47.022	ug/l	99
90) Hexachloroethane	11.821	117	329035	40.507	ug/l	96
91) 1,2-Dichlorobenzene	11.567	146	854599	48.321	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.349	75	144885	50.939	ug/l	94
93) 1,2,4-Trichlorobenzene	13.185	180	507400	50.049	ug/l	100
94) Hexachlorobutadiene	13.368	225	205155	38.945	ug/l	99
95) Naphthalene	13.422	128	1837825	56.086	ug/l	100
96) 1,2,3-Trichlorobenzene	13.664	180	525316	50.663	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

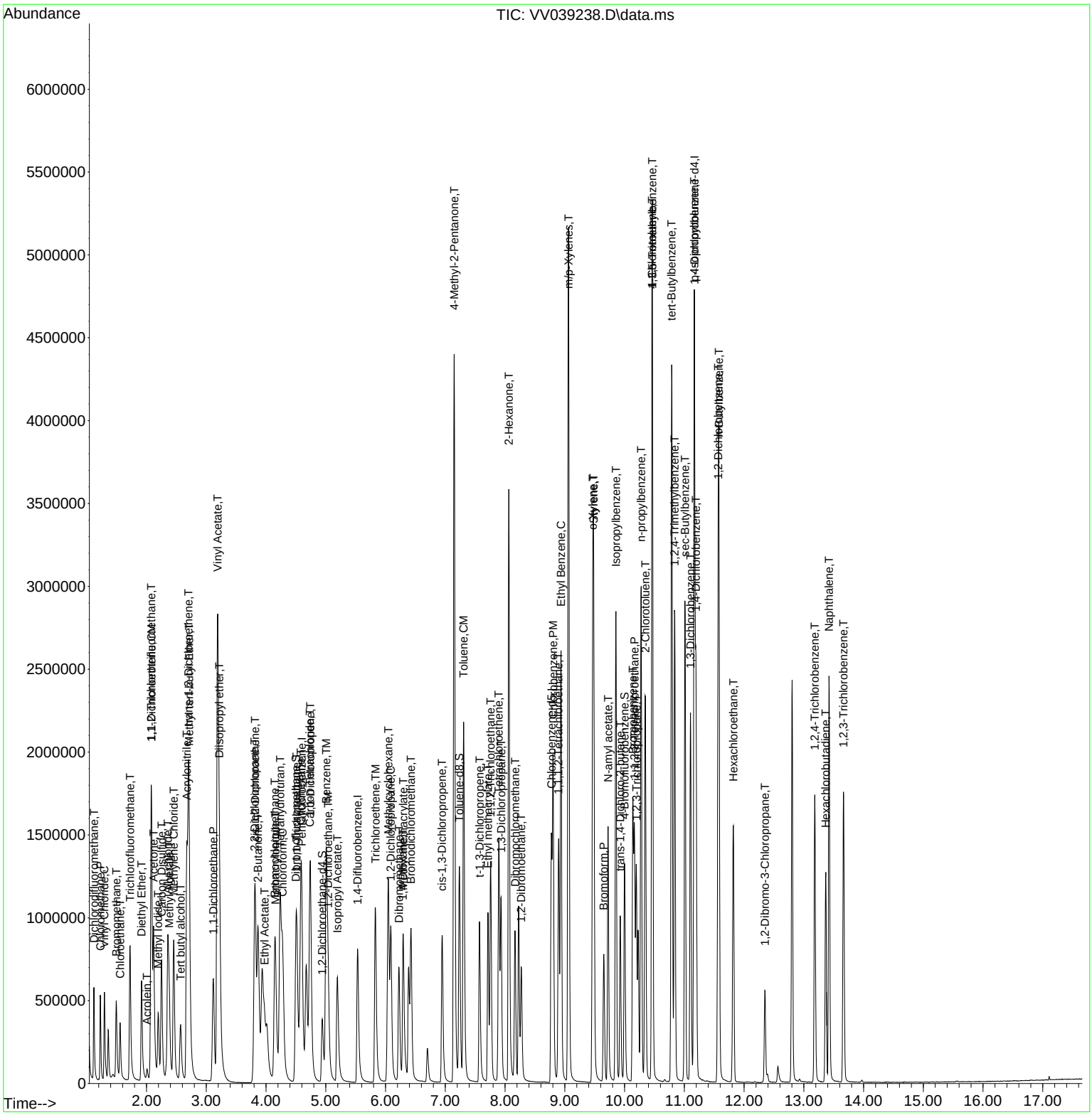
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

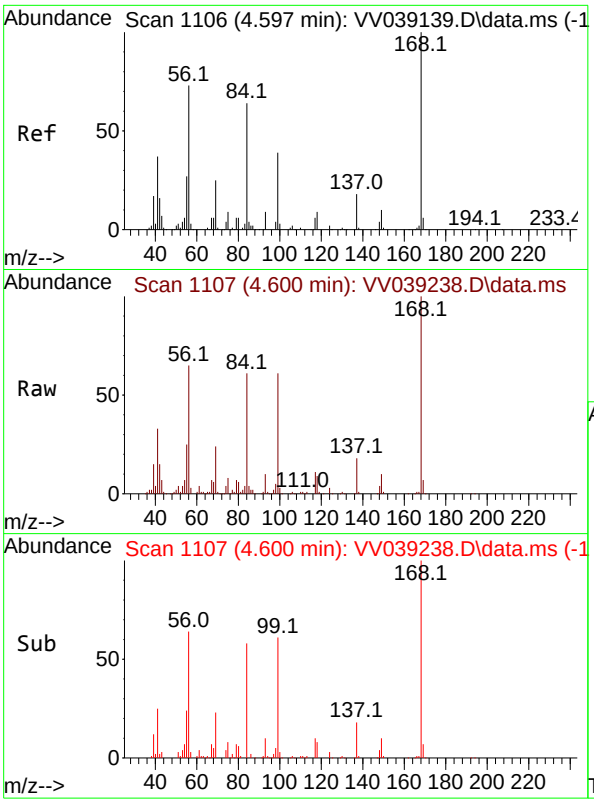
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



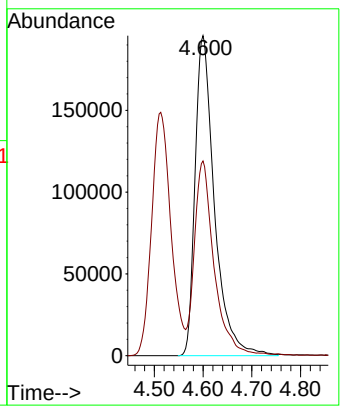


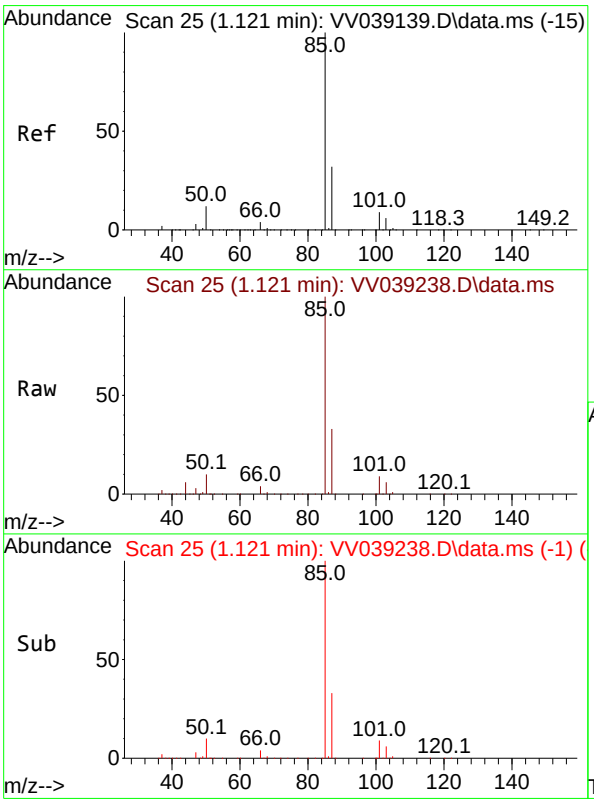
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:168 Resp: 540727

Ion	Ratio	Lower	Upper
168	100		
99	60.3	49.6	74.4

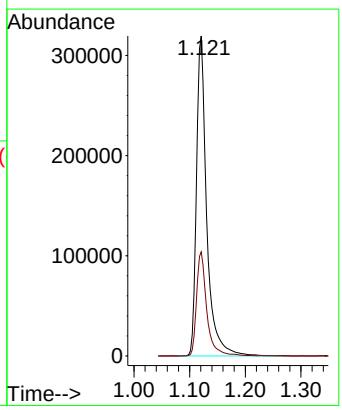


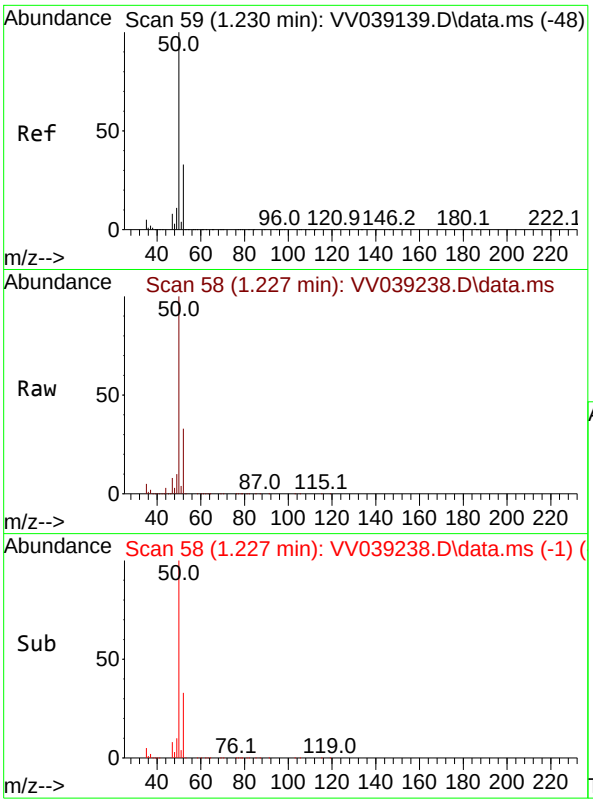


#2
Dichlorodifluoromethane
Concen: 47.809 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 85 Resp: 409233

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.0	47.9



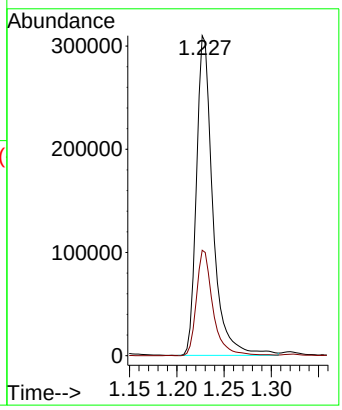


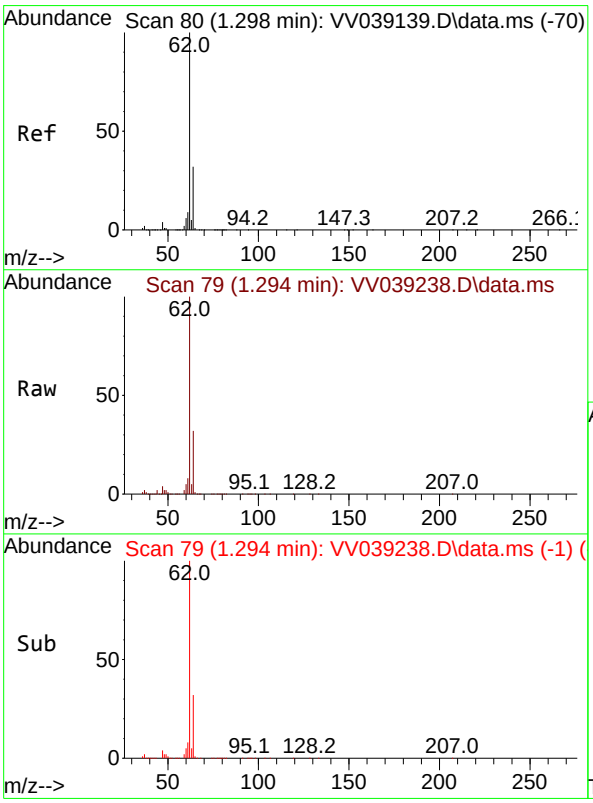
#3
Chloromethane
Concen: 40.711 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 50 Resp: 374091

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.0	39.0

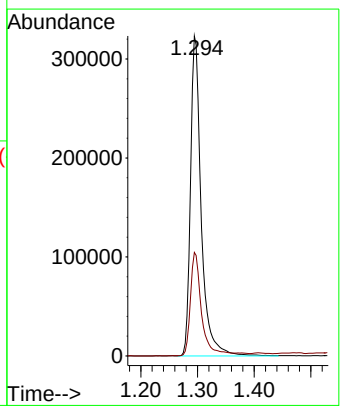


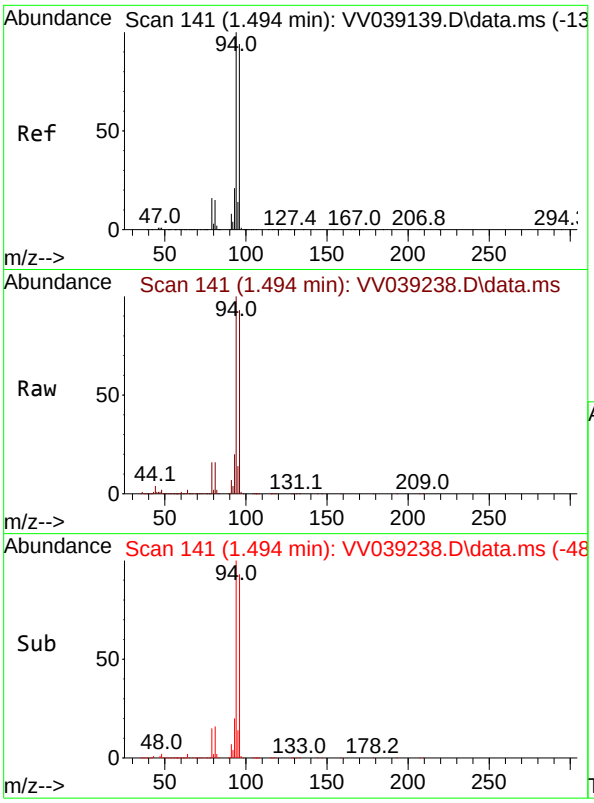


#4
Vinyl Chloride
Concen: 43.135 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 62 Resp: 424340

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.6	38.4



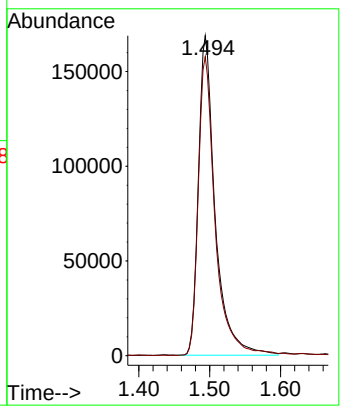


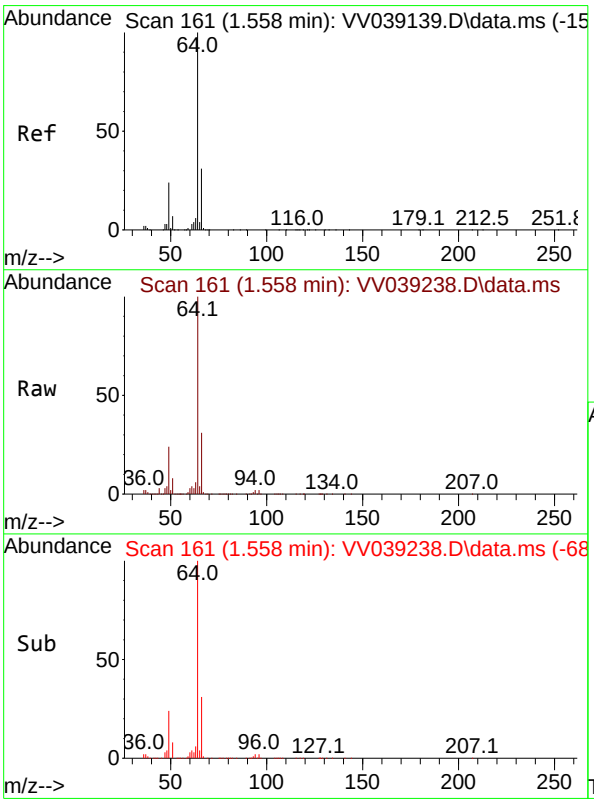
#5
Bromomethane
Concen: 44.723 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 94 Resp: 277351

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.9	112.3

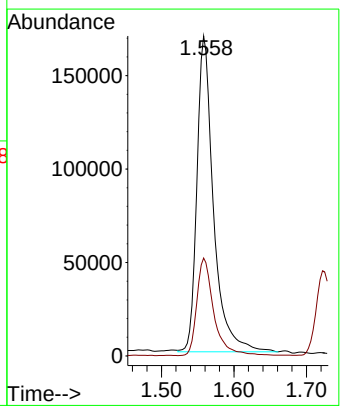


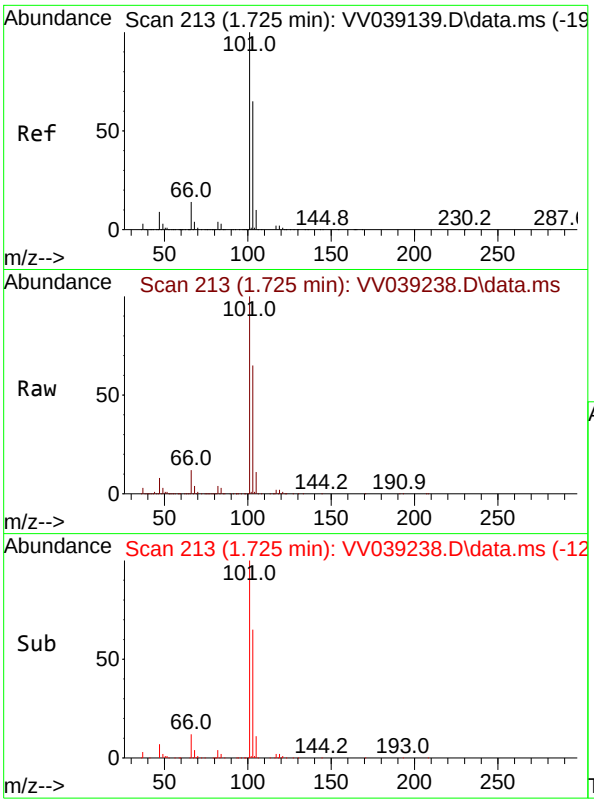


#6
Chloroethane
Concen: 46.029 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 64 Resp: 268225

Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.6	36.8



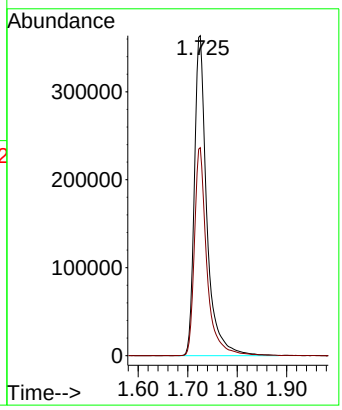


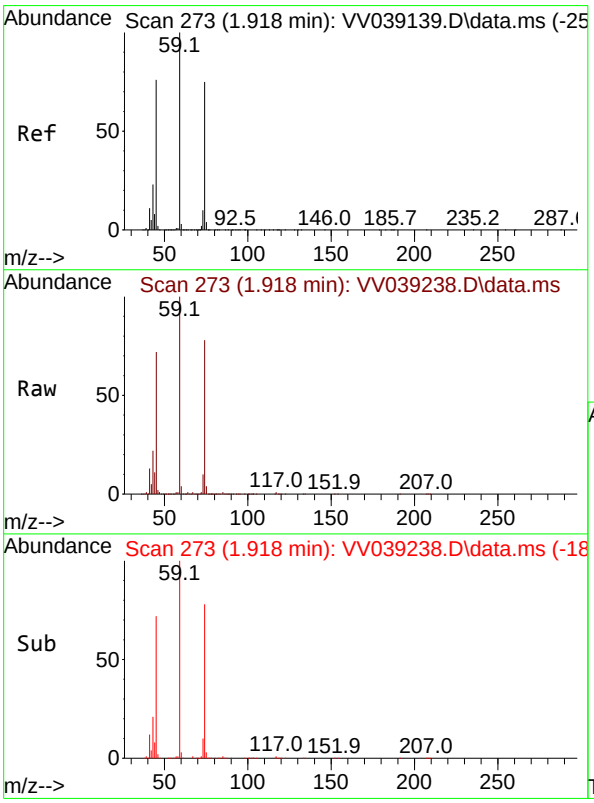
#7
Trichlorofluoromethane
Concen: 44.938 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:101 Resp: 640051

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.0	78.0

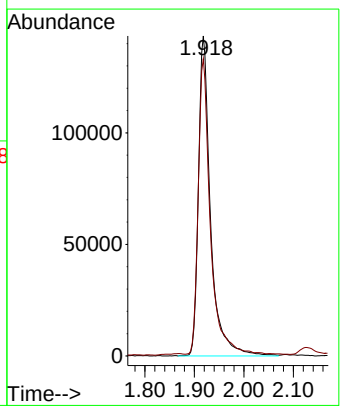


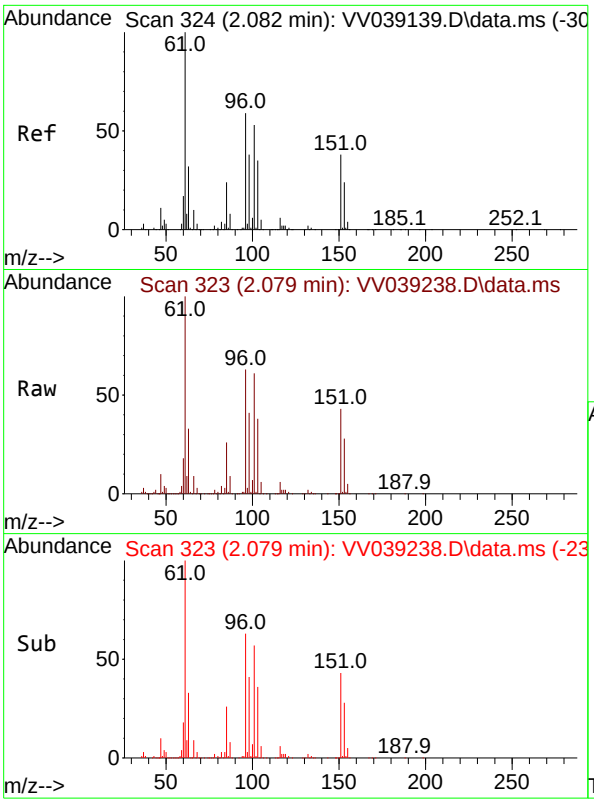


#8
Diethyl Ether
Concen: 46.448 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 74 Resp: 245588

Ion	Ratio	Lower	Upper
74	100		
45	91.9	49.6	148.8



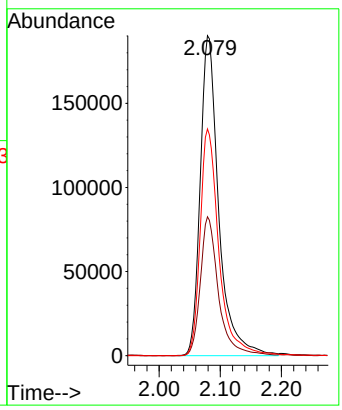


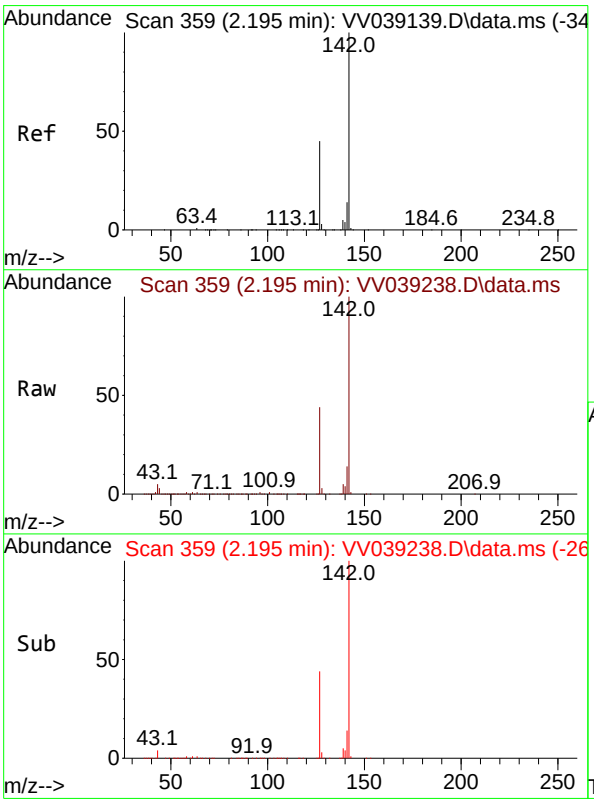
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.252 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:101 Resp: 400444

Ion	Ratio	Lower	Upper
101	100		
85	42.6	36.2	54.2
151	72.0	56.3	84.5

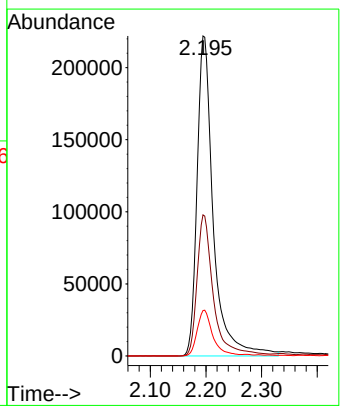


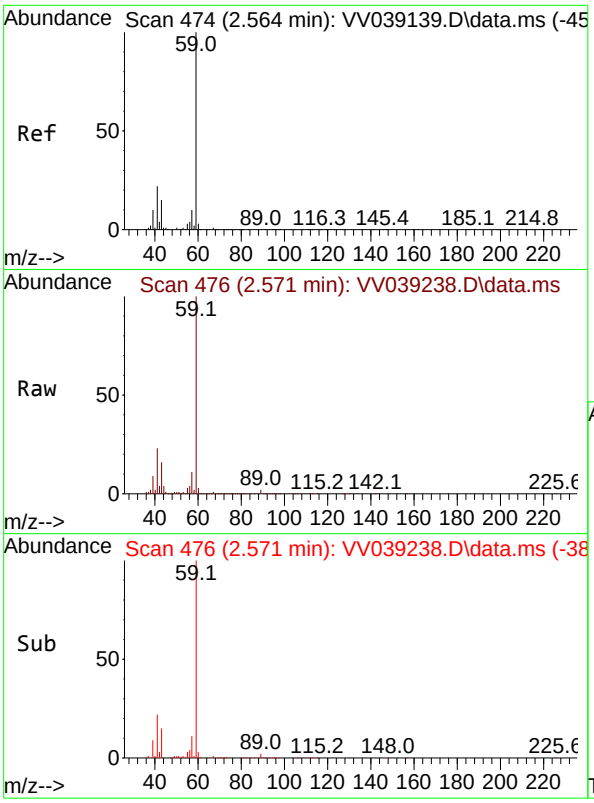


#10
Methyl Iodide
Concen: 55.784 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:142 Resp: 450189

Ion	Ratio	Lower	Upper
142	100		
127	44.3	36.3	54.5
141	13.7	11.2	16.8



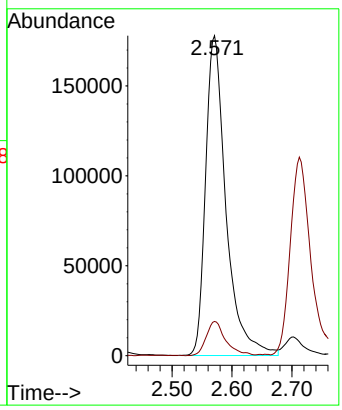


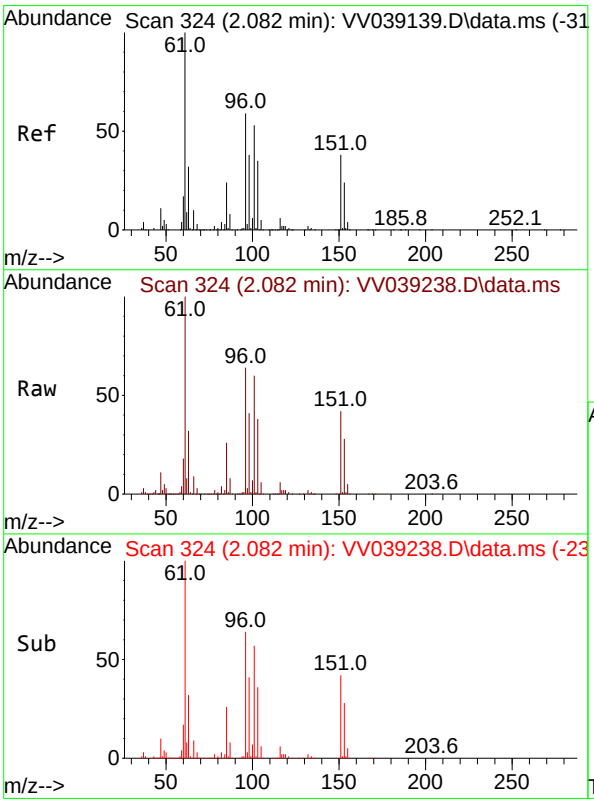
#11
Tert butyl alcohol
Concen: 254.549 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 59 Resp: 421033

Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.8	11.8

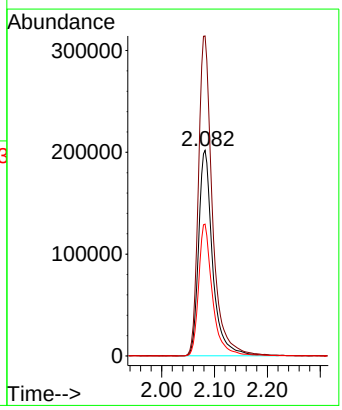


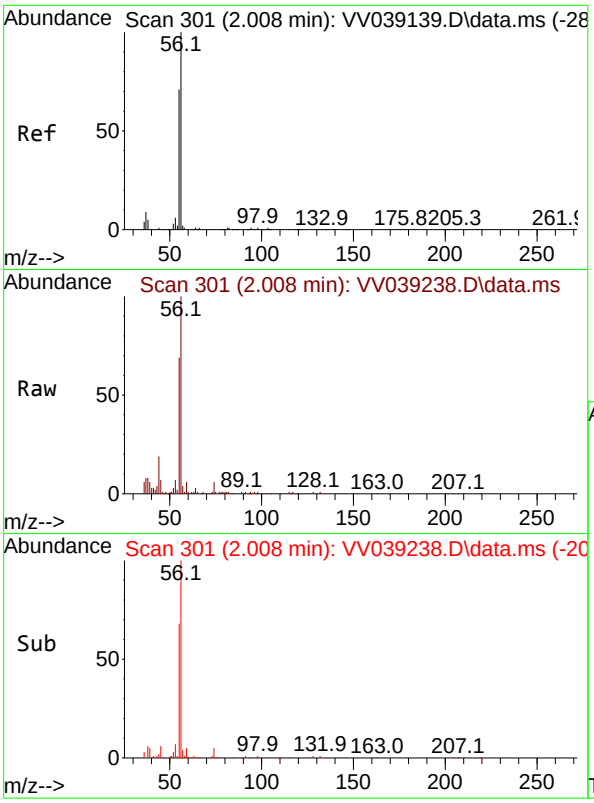


#12
1,1-Dichloroethene
Concen: 45.719 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 96 Resp: 372736

Ion	Ratio	Lower	Upper
96	100		
61	155.8	136.0	204.0
98	64.1	51.0	76.6



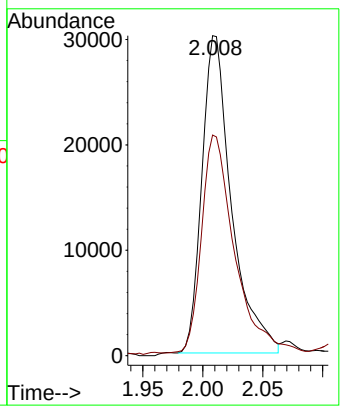


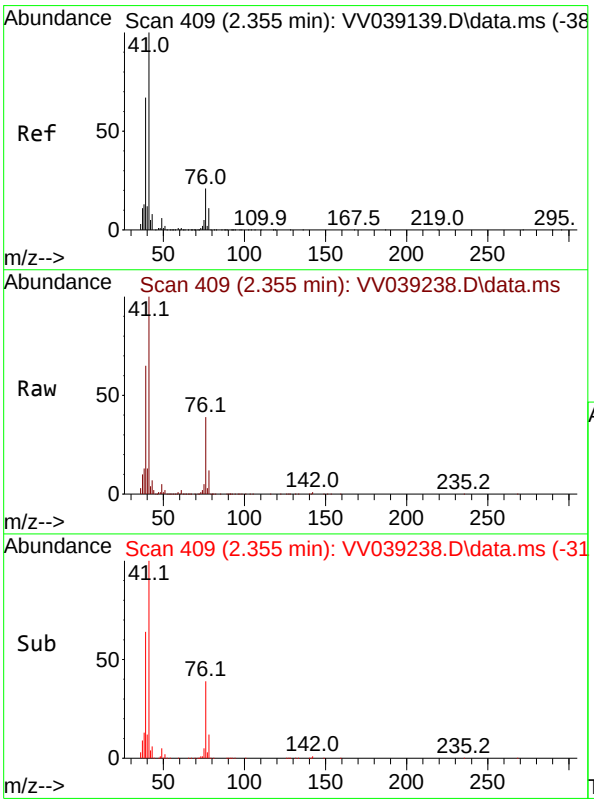
#13
Acrolein
Concen: 180.660 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 56 Resp: 51851

Ion	Ratio	Lower	Upper
56	100		
55	76.3	56.2	84.4

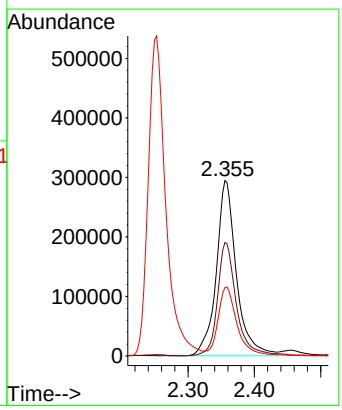


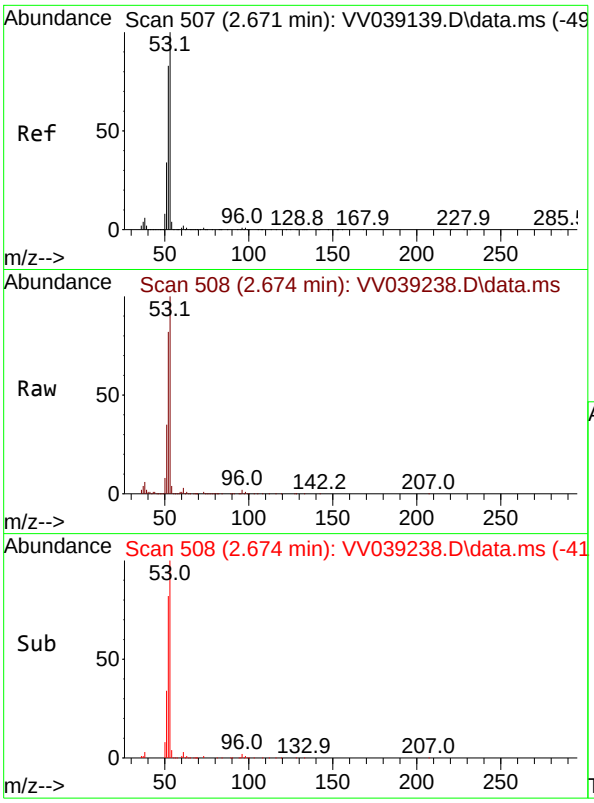


#14
Allyl chloride
Concen: 42.759 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 41 Resp: 622696

Ion	Ratio	Lower	Upper
41	100		
39	60.8	51.0	76.6
76	37.0	28.2	42.4



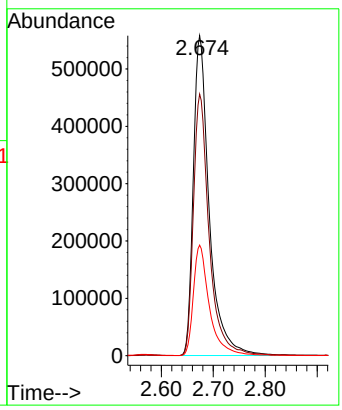


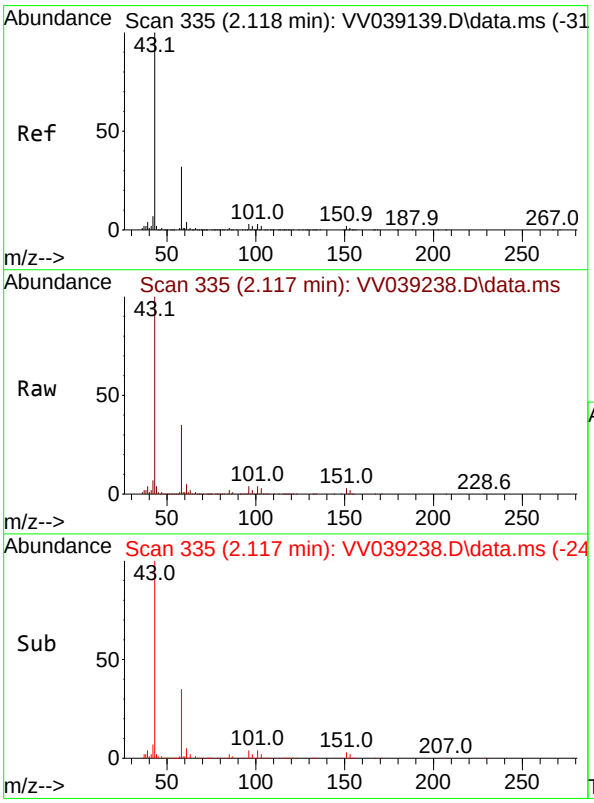
#15
Acrylonitrile
Concen: 223.752 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 53 Resp: 1186396

Ion	Ratio	Lower	Upper
53	100		
52	80.9	66.1	99.1
51	34.8	28.5	42.7

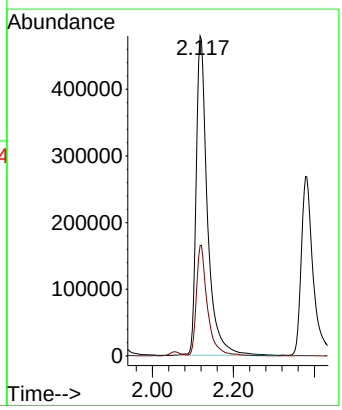


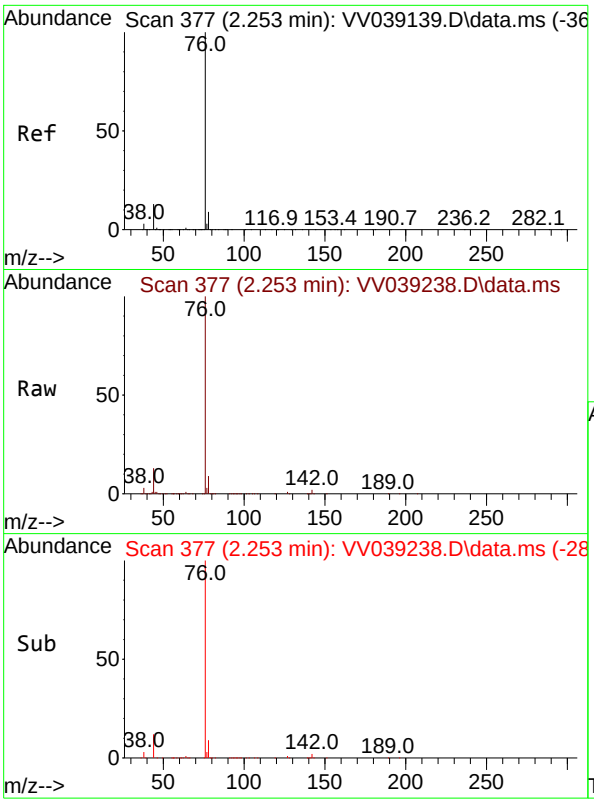


#16
Acetone
Concen: 187.048 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 43 Resp: 924673

Ion	Ratio	Lower	Upper
43	100		
58	34.5	25.8	38.6



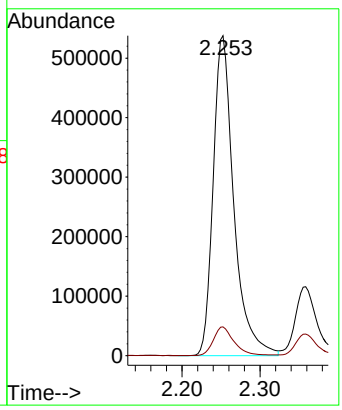


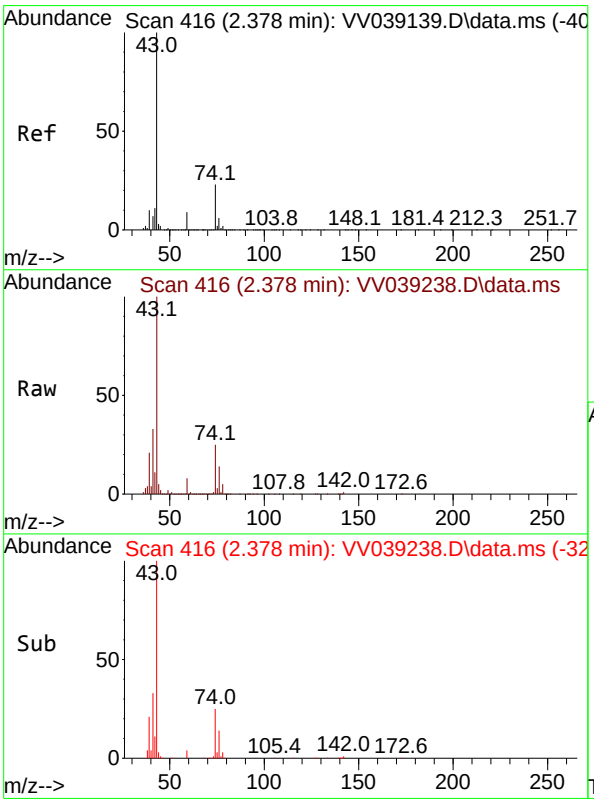
#17
Carbon Disulfide
Concen: 39.641 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 76 Resp: 988393

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

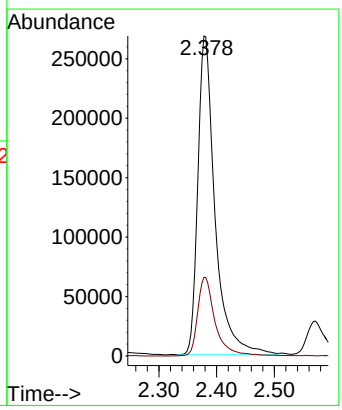


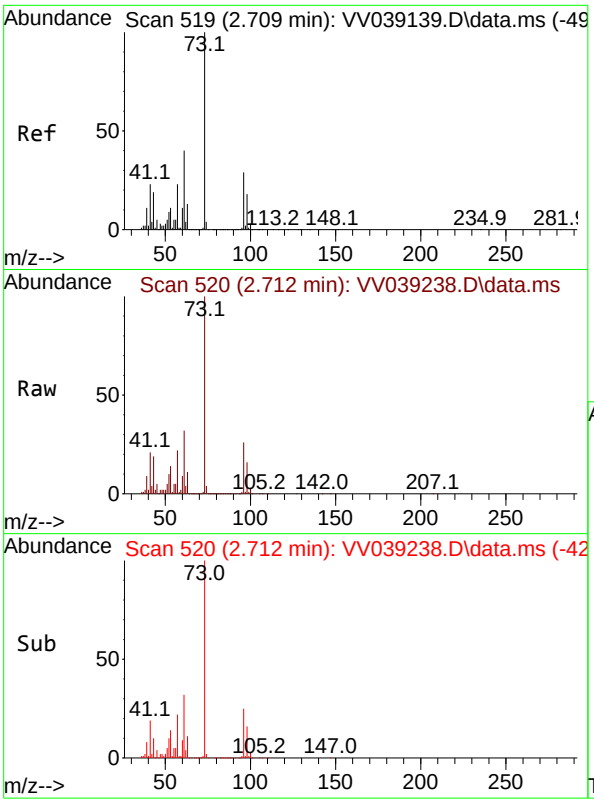


#18
Methyl Acetate
Concen: 47.853 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 43 Resp: 554871

Ion	Ratio	Lower	Upper
43	100		
74	25.0	18.6	27.8



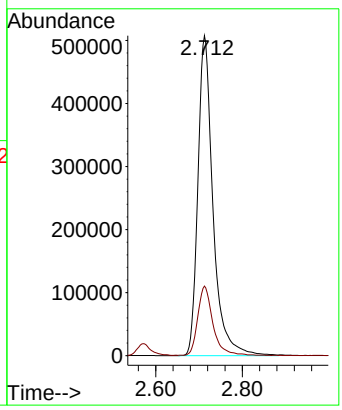


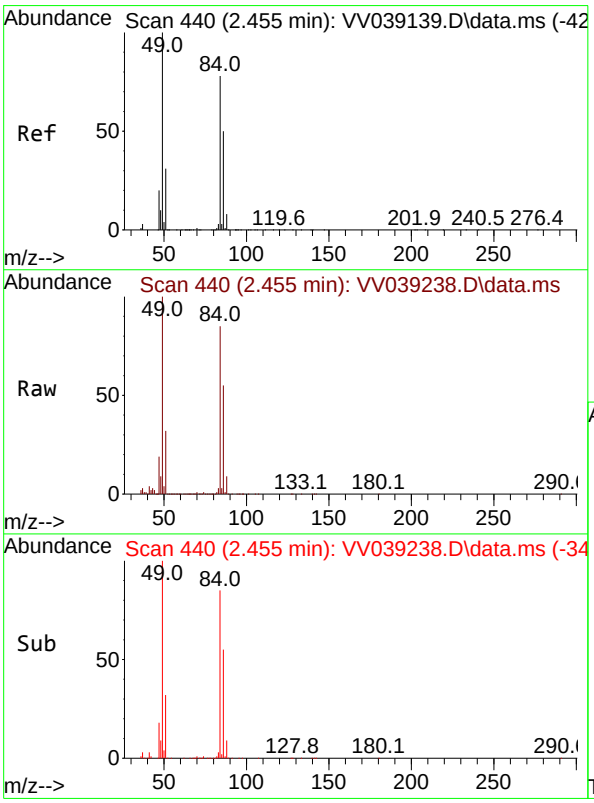
#19
Methyl tert-butyl Ether
Concen: 47.301 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 73 Resp: 1228842

Ion	Ratio	Lower	Upper
73	100		
57	21.7	18.2	27.4

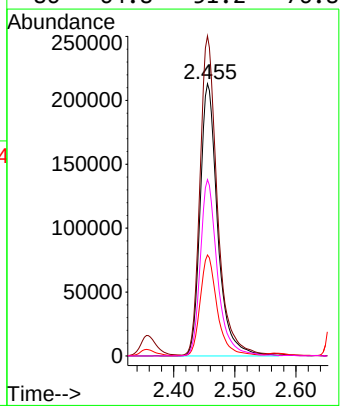


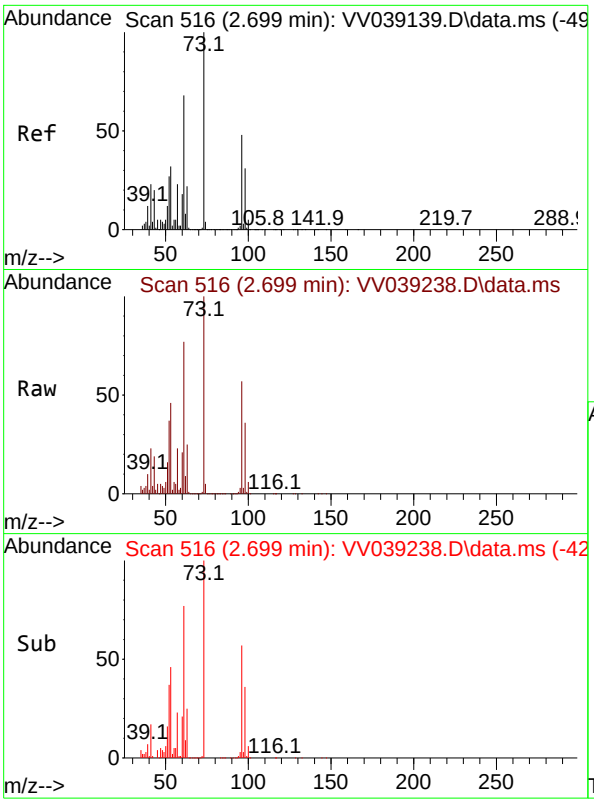


#20
Methylene Chloride
Concen: 50.097 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 84 Resp: 423573

Ion	Ratio	Lower	Upper
84	100		
49	117.2	102.8	154.2
51	36.9	31.9	47.9
86	64.8	51.2	76.8



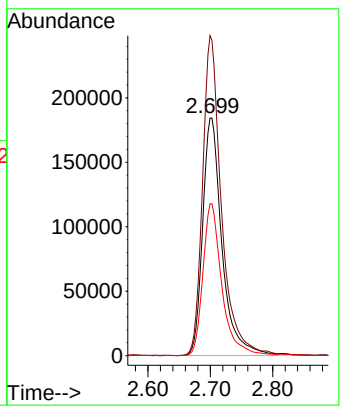


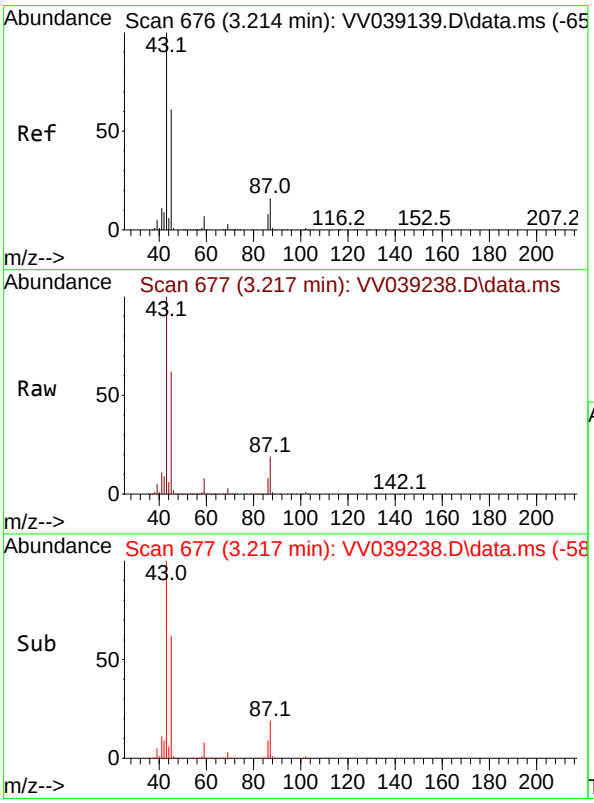
#21
trans-1,2-Dichloroethene
Concen: 45.709 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 96 Resp: 396720

Ion	Ratio	Lower	Upper
96	100		
61	134.7	112.8	169.2
98	64.0	51.1	76.7

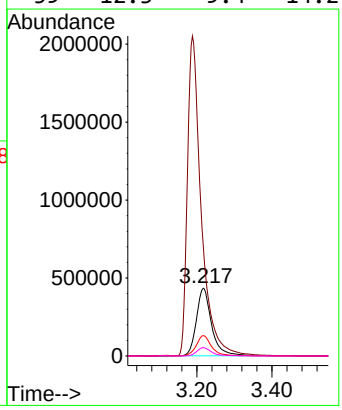


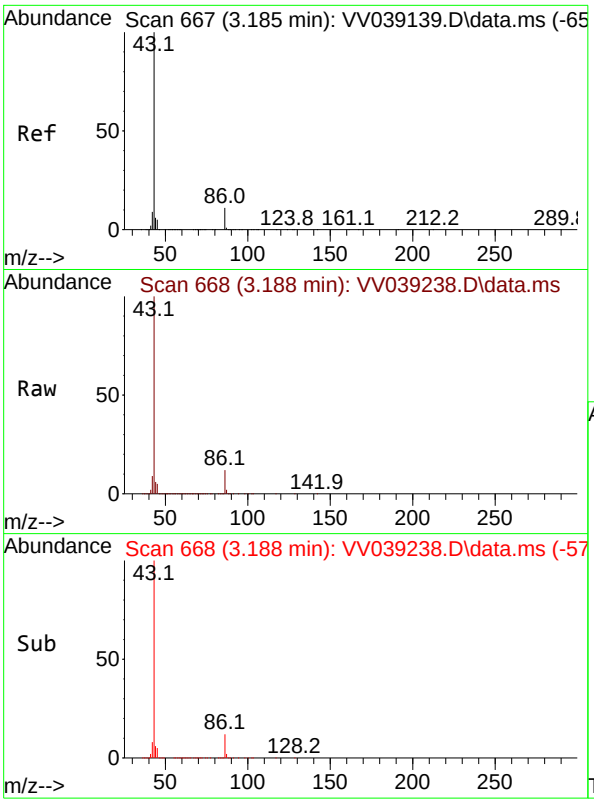


#22
Diisopropyl ether
Concen: 43.780 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 45 Resp: 1219843

Ion	Ratio	Lower	Upper
45	100		
43	161.3	130.9	196.3
87	30.0	21.1	31.7
59	12.3	9.4	14.2



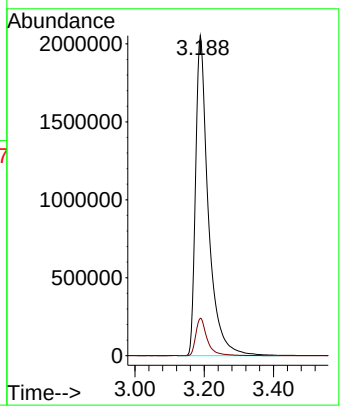


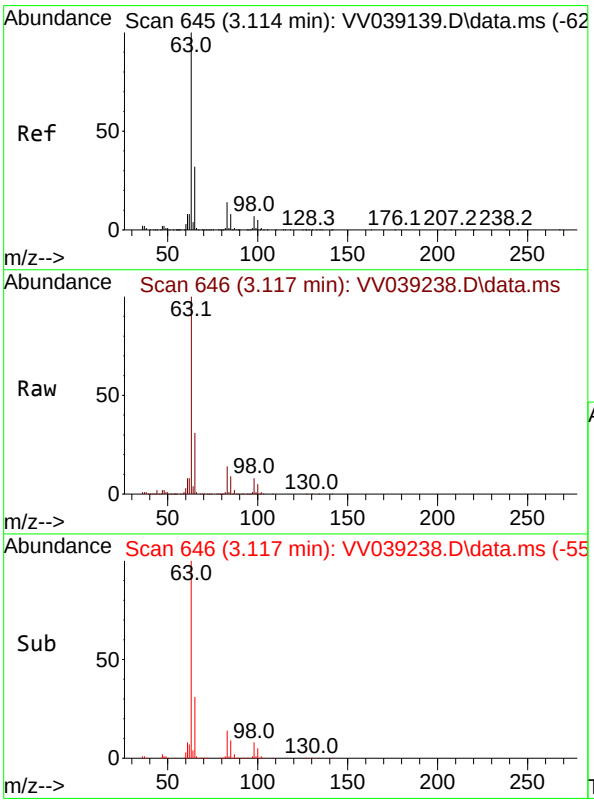
#23
Vinyl Acetate
Concen: 215.924 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 43 Resp: 5263028

Ion	Ratio	Lower	Upper
43	100		
86	11.7	8.4	12.6

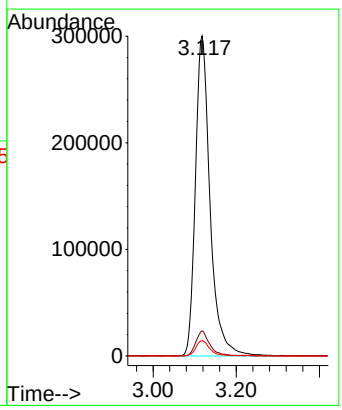


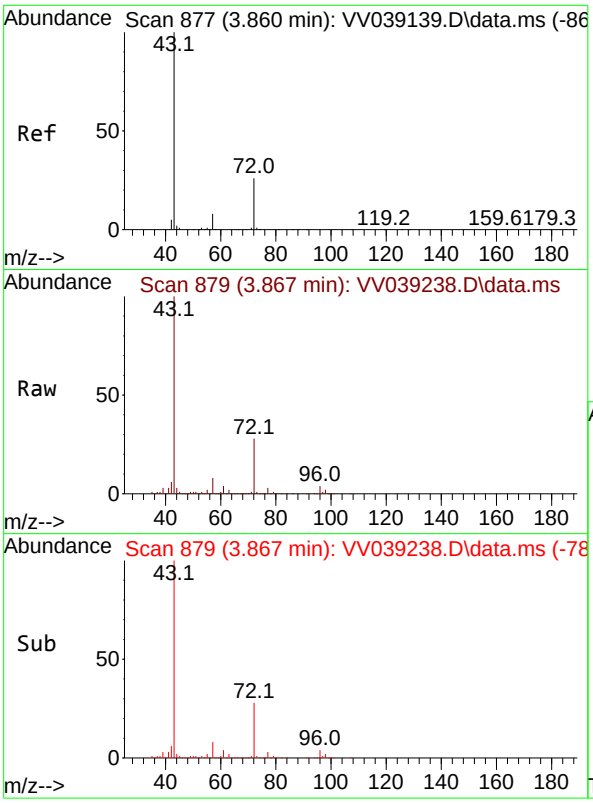


#24
1,1-Dichloroethane
Concen: 43.241 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 63 Resp: 736796

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.4	10.2
100	4.7	2.2	6.6



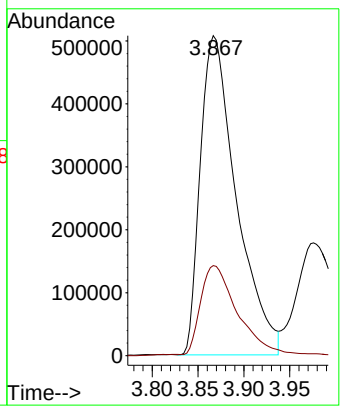


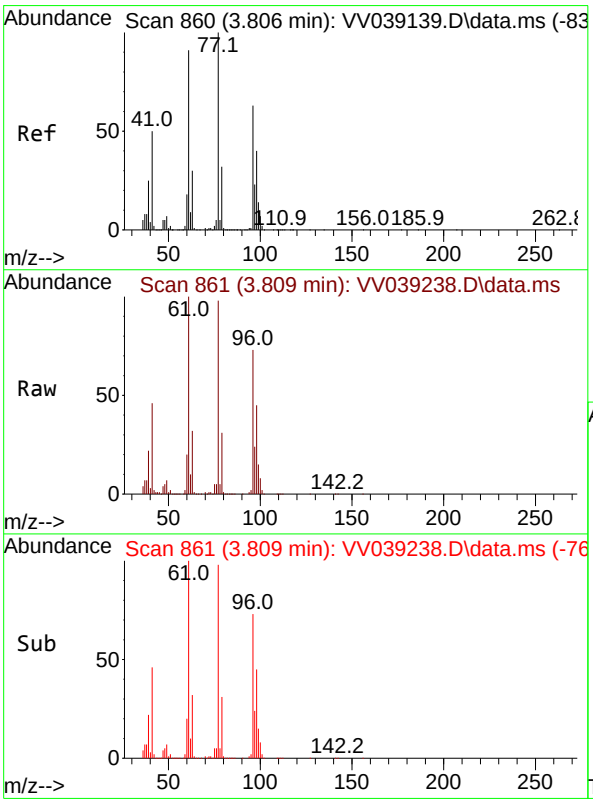
#25
2-Butanone
Concen: 221.647 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 43 Resp: 1389008

Ion	Ratio	Lower	Upper
43	100		
72	27.8	21.0	31.6

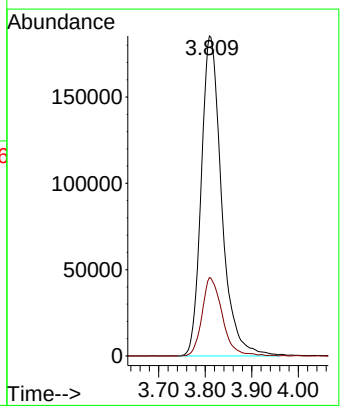


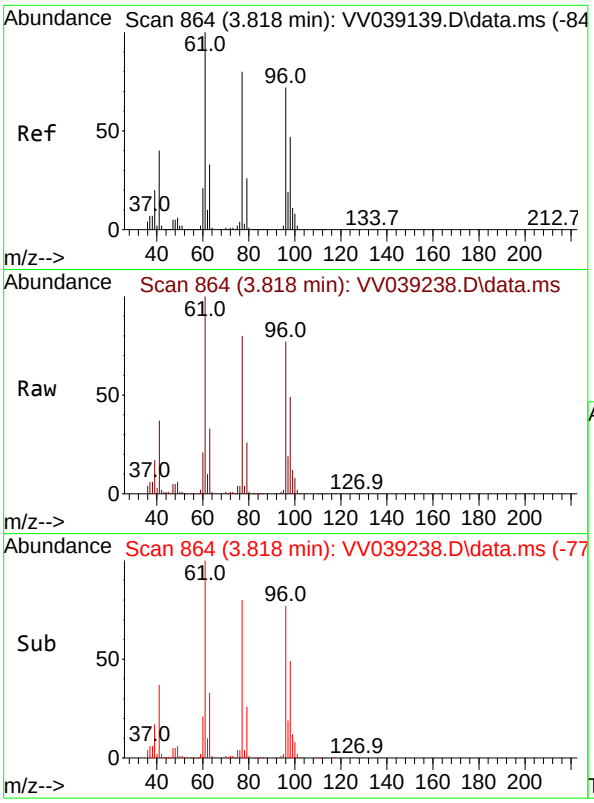


#26
2,2-Dichloropropane
Concen: 37.295 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 77 Resp: 563462

Ion	Ratio	Lower	Upper
77	100		
97	24.2	11.6	34.7



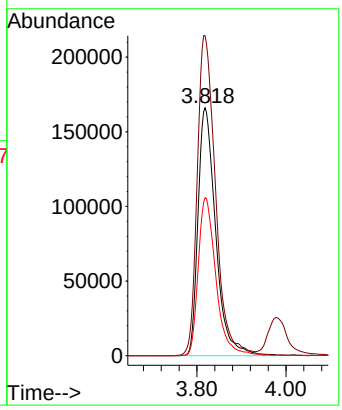


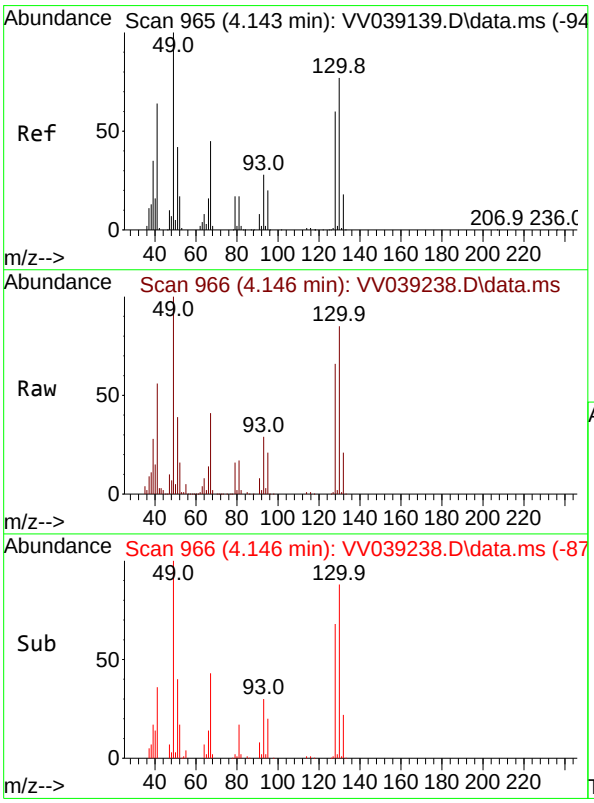
#27
cis-1,2-Dichloroethene
Concen: 47.857 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 96 Resp: 458098

Ion	Ratio	Lower	Upper
96	100		
61	133.6	0.0	286.4
98	63.6	0.0	126.6

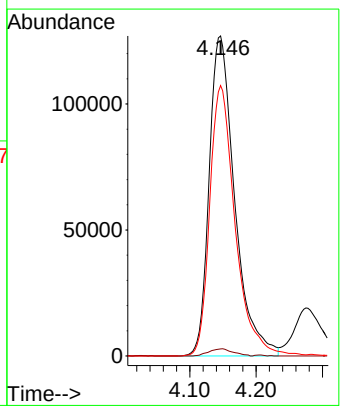


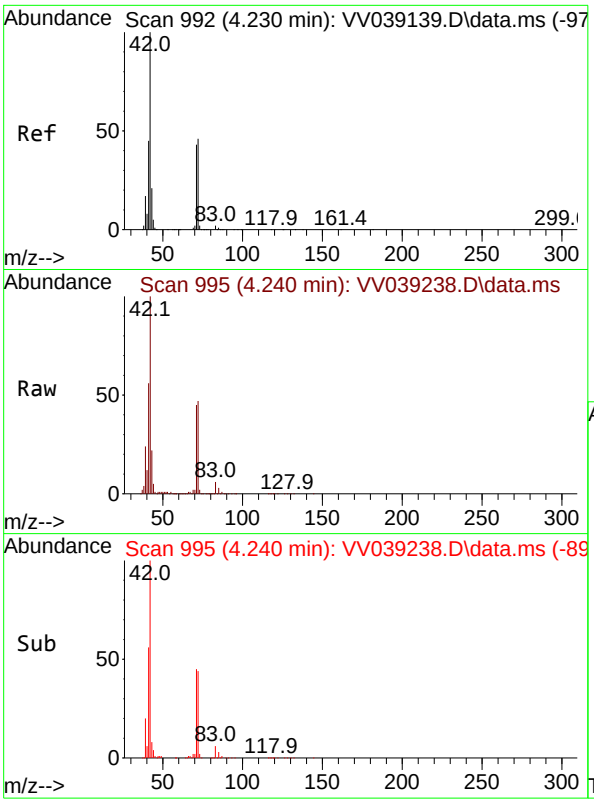


#28
Bromochloromethane
Concen: 45.116 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 49 Resp: 339370

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	84.3	60.2	90.2



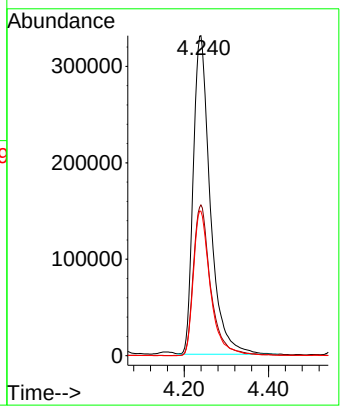


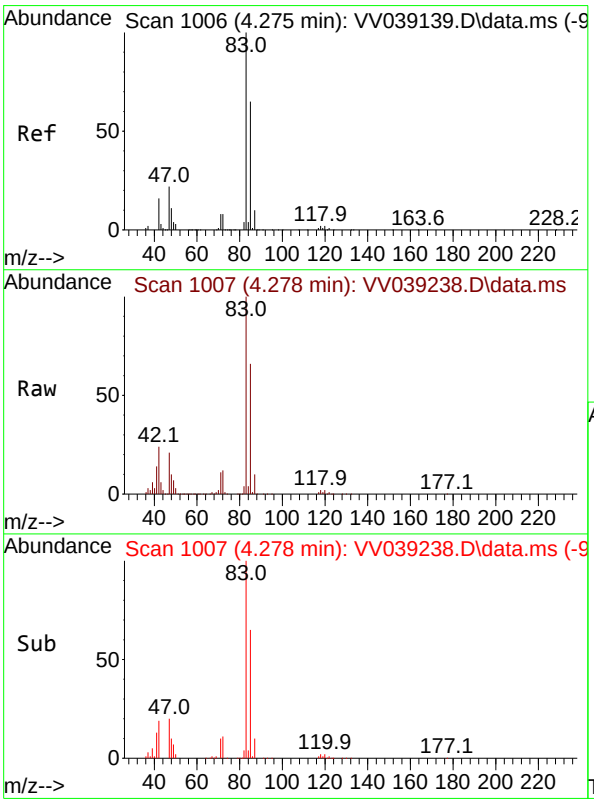
#29
Tetrahydrofuran
Concen: 236.103 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 42 Resp: 926118

Ion	Ratio	Lower	Upper
42	100		
72	47.9	36.3	54.5
71	45.0	34.3	51.5

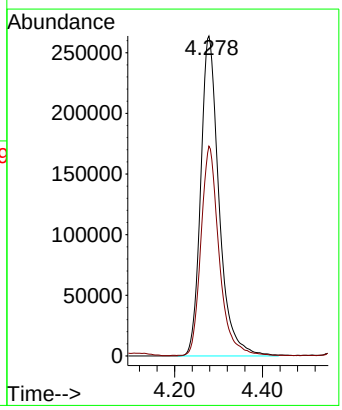


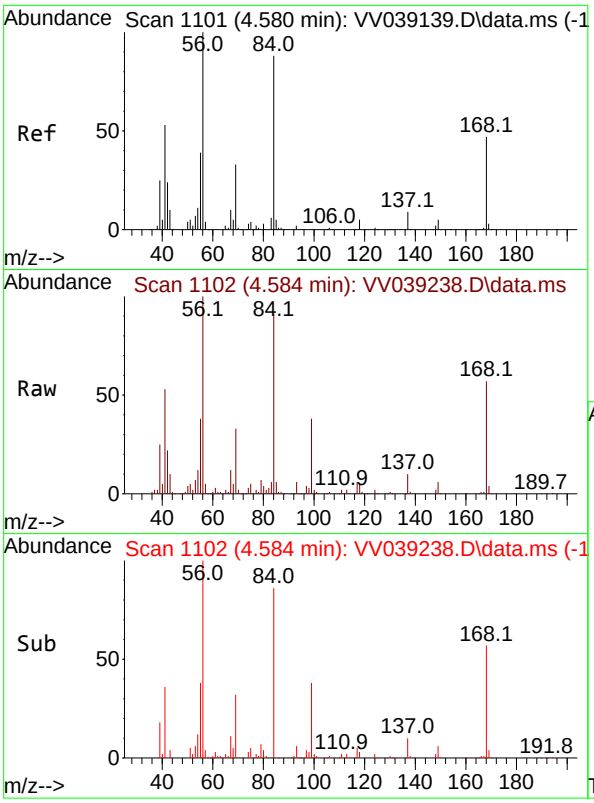


#30
Chloroform
Concen: 42.953 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 83 Resp: 764253

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.1	78.1



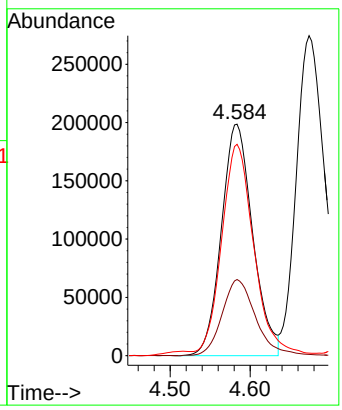


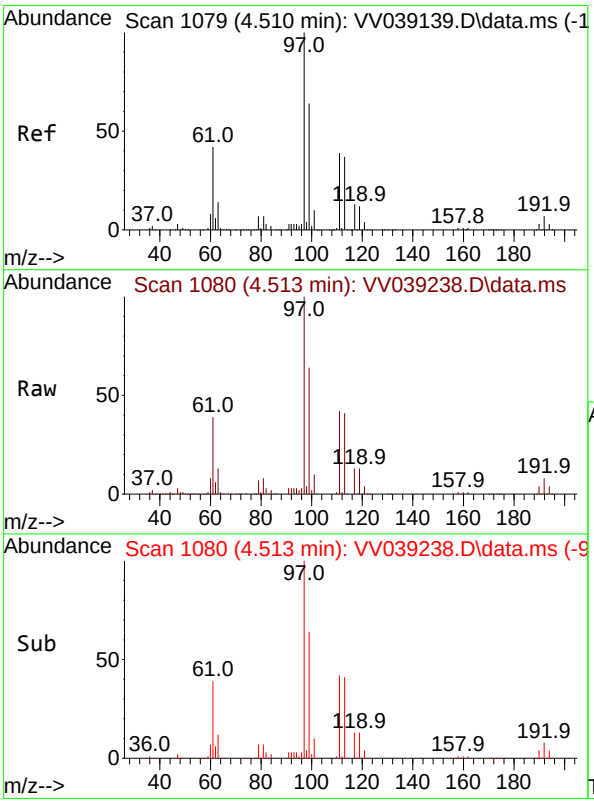
#31
Cyclohexane
Concen: 38.778 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 56 Resp: 541266

Ion	Ratio	Lower	Upper
56	100		
69	32.9	26.2	39.2
84	89.5	70.3	105.5

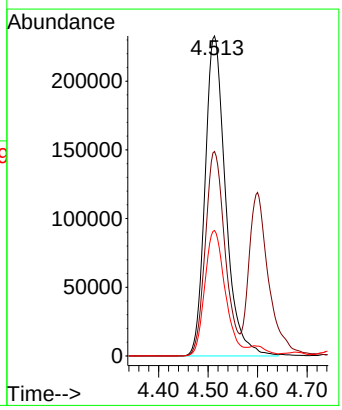


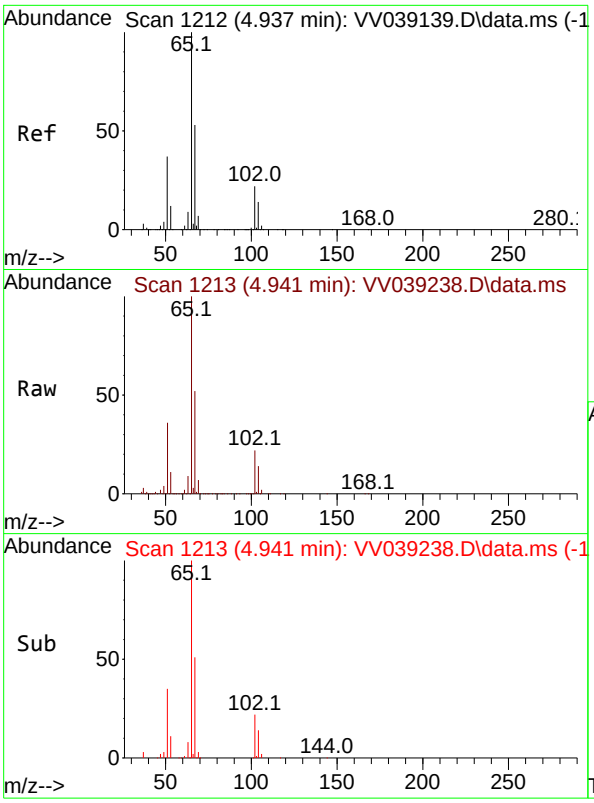


#32
1,1,1-Trichloroethane
Concen: 43.554 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 97 Resp: 670890

Ion	Ratio	Lower	Upper
97	100		
99	61.3	49.6	74.4
61	39.2	34.5	51.7



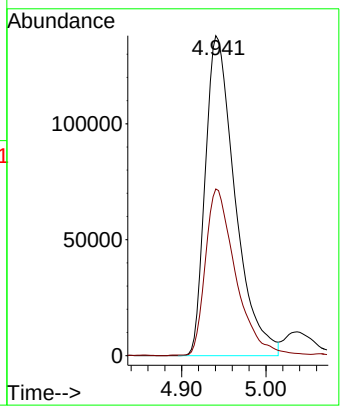


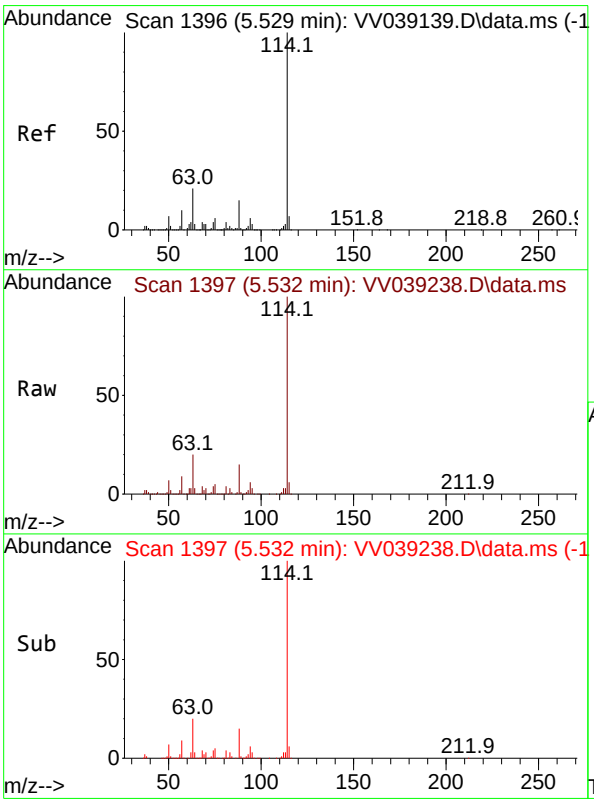
#33
1,2-Dichloroethane-d4
Concen: 43.224 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 65 Resp: 338268

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	107.0

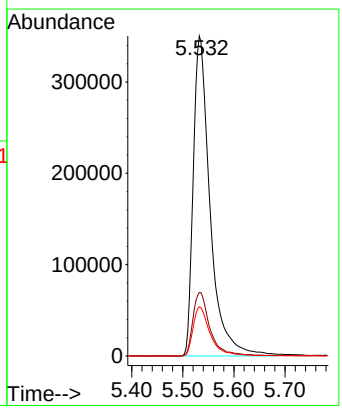


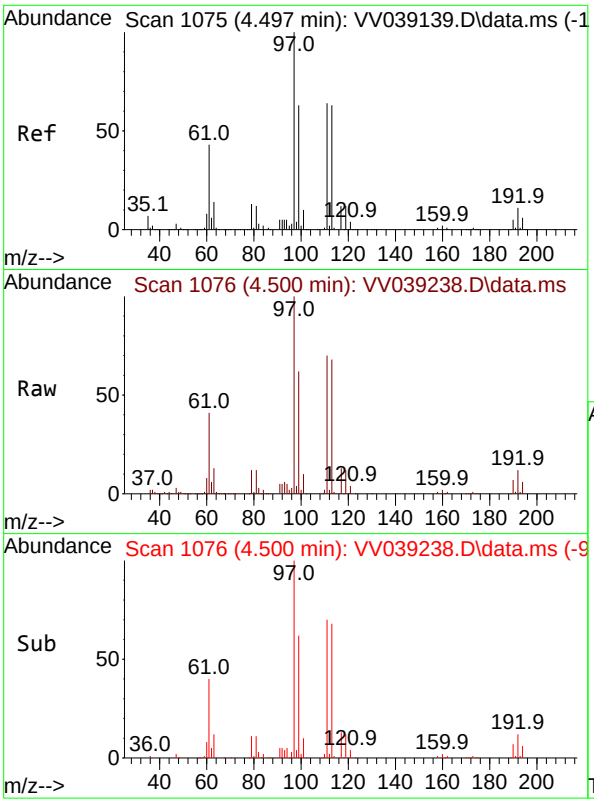


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:114 Resp: 801849

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.6
88	15.4	0.0	30.8



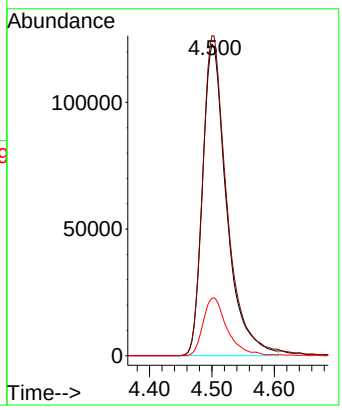


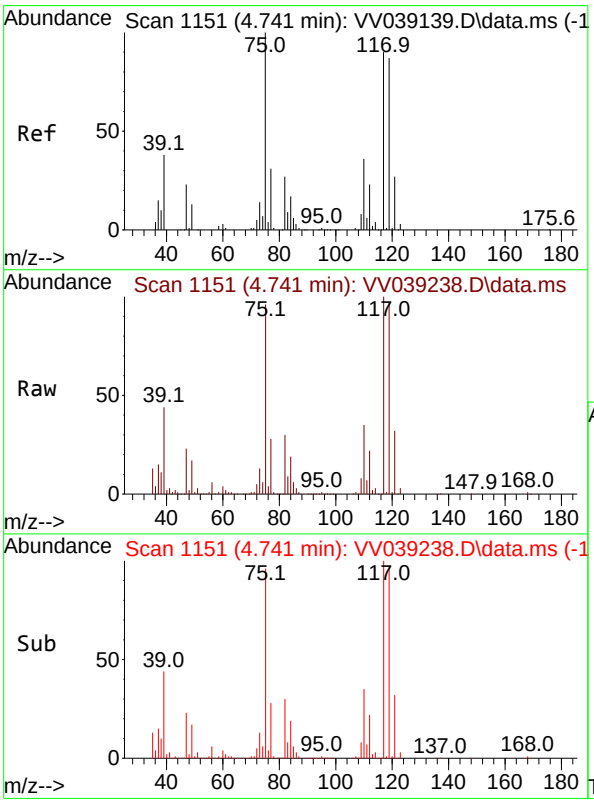
#35
Dibromofluoromethane
Concen: 51.227 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:113 Resp: 330222

Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.4	123.6
192	18.5	13.8	20.8

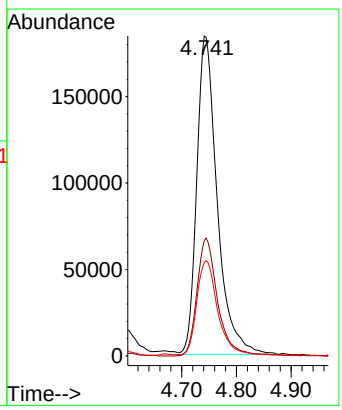


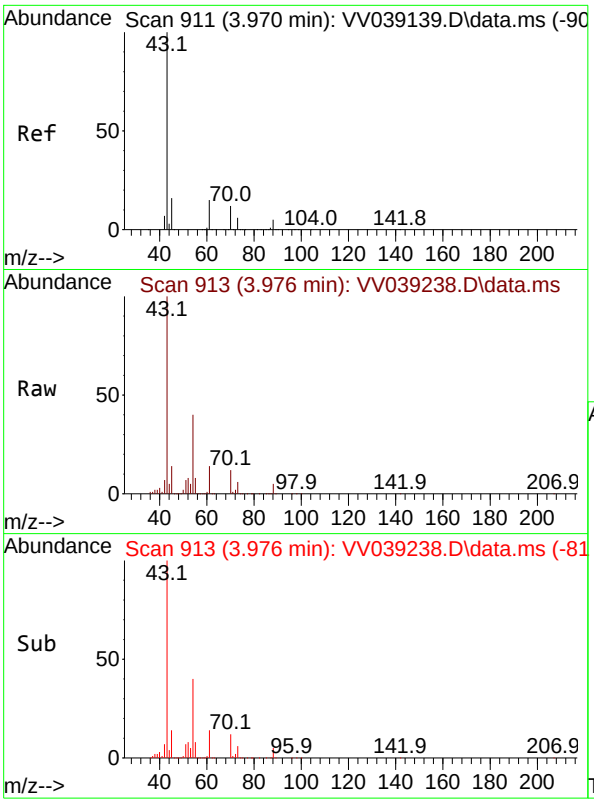


#36
1,1-Dichloropropene
Concen: 48.984 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 75 Resp: 477402

Ion	Ratio	Lower	Upper
75	100		
110	37.1	18.1	54.1
77	29.7	24.8	37.2



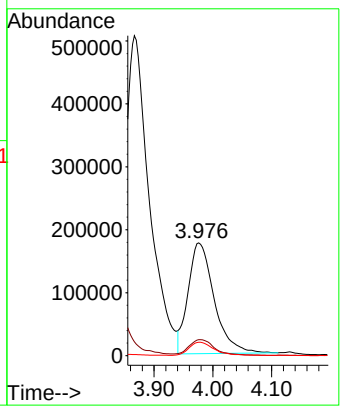


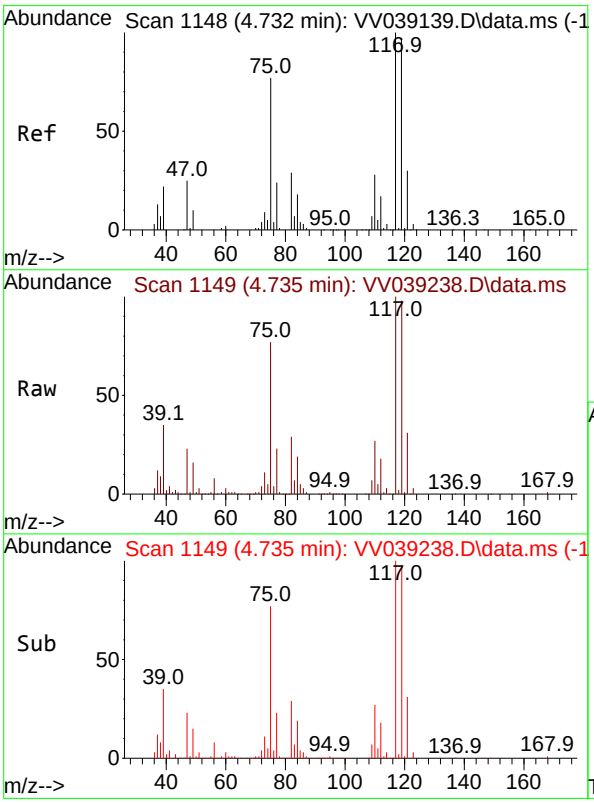
#37
Ethyl Acetate
Concen: 45.824 ug/l
RT: 3.976 min Scan# 91
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 43 Resp: 541921

Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.3	15.5
70	11.5	8.0	12.0

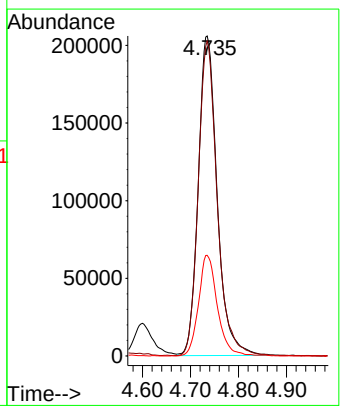


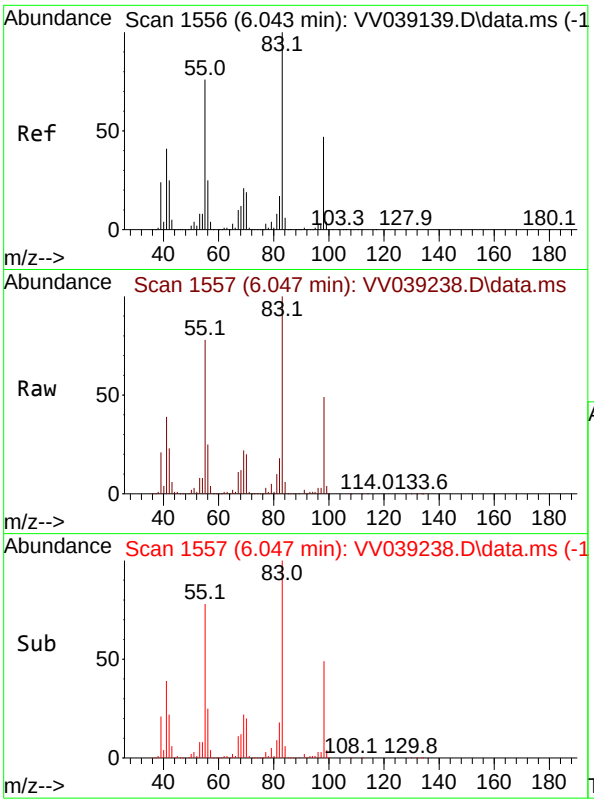


#38
Carbon Tetrachloride
Concen: 47.413 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:117 Resp: 564742

Ion	Ratio	Lower	Upper
117	100		
119	98.4	77.2	115.8
121	31.5	24.2	36.2



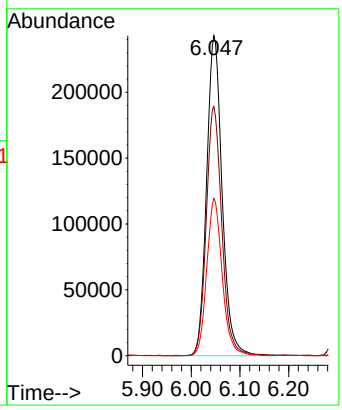


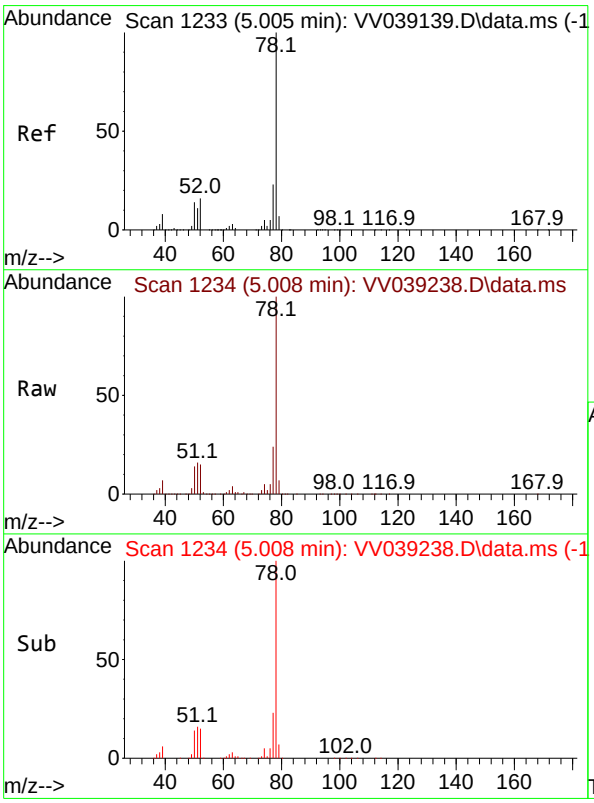
#39
Methylcyclohexane
Concen: 45.693 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 83 Resp: 537787

Ion	Ratio	Lower	Upper
83	100		
55	77.8	60.5	90.7
98	49.2	37.8	56.6

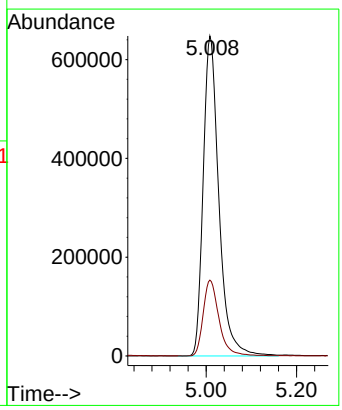


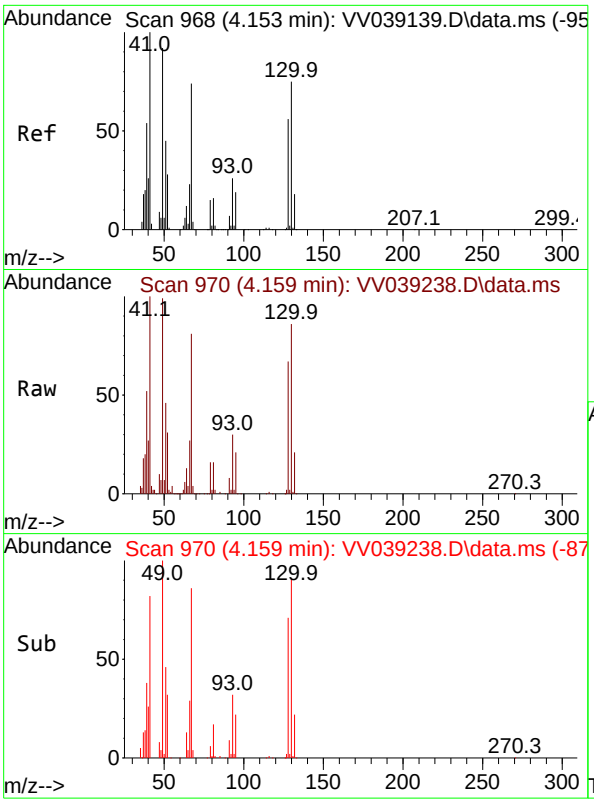


#40
Benzene
Concen: 49.112 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 78 Resp: 1558660

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1



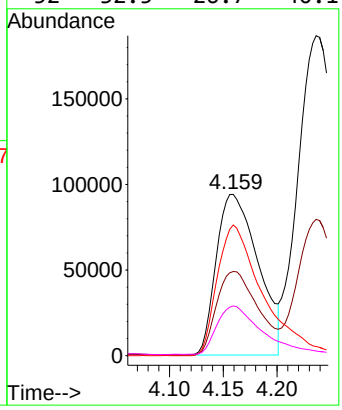


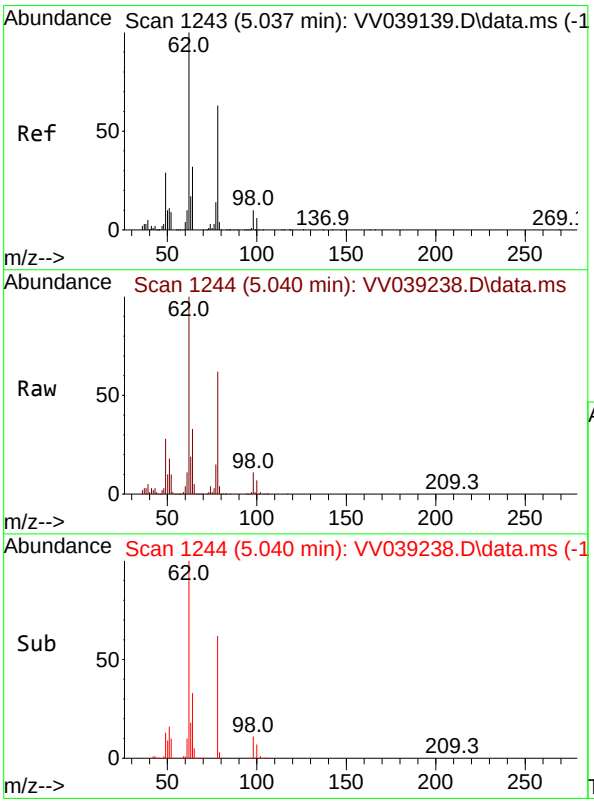
#41
Methacrylonitrile
Concen: 47.642 ug/l
RT: 4.159 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 41 Resp: 254239

Ion	Ratio	Lower	Upper
41	100		
39	51.6	42.2	63.2
67	90.9	67.9	101.9
52	32.5	26.7	40.1

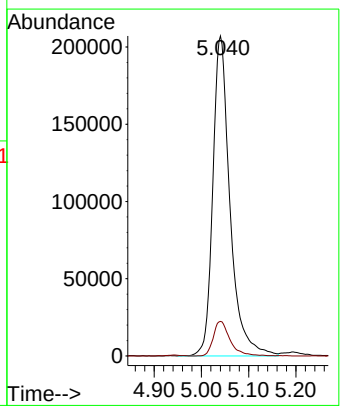


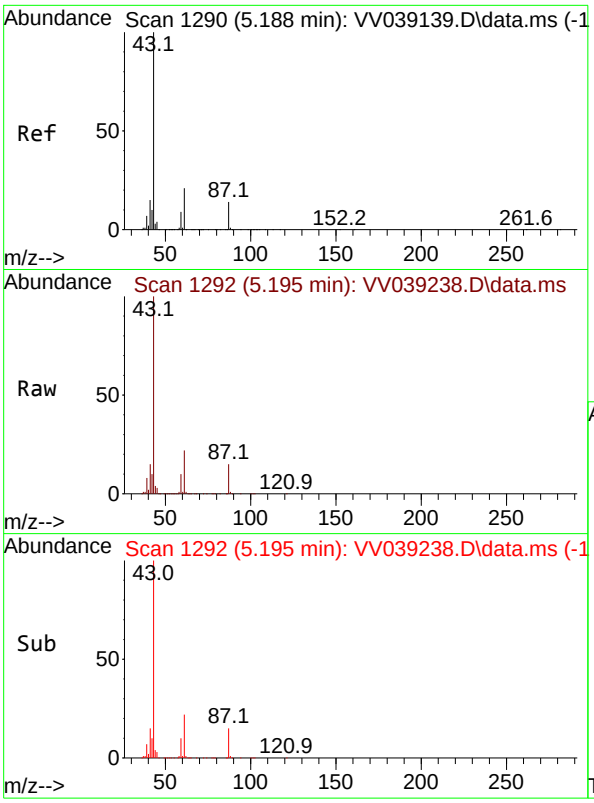


#42
1,2-Dichloroethane
Concen: 47.139 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 62 Resp: 524185

Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	19.2



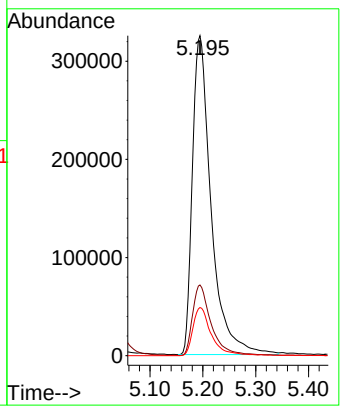


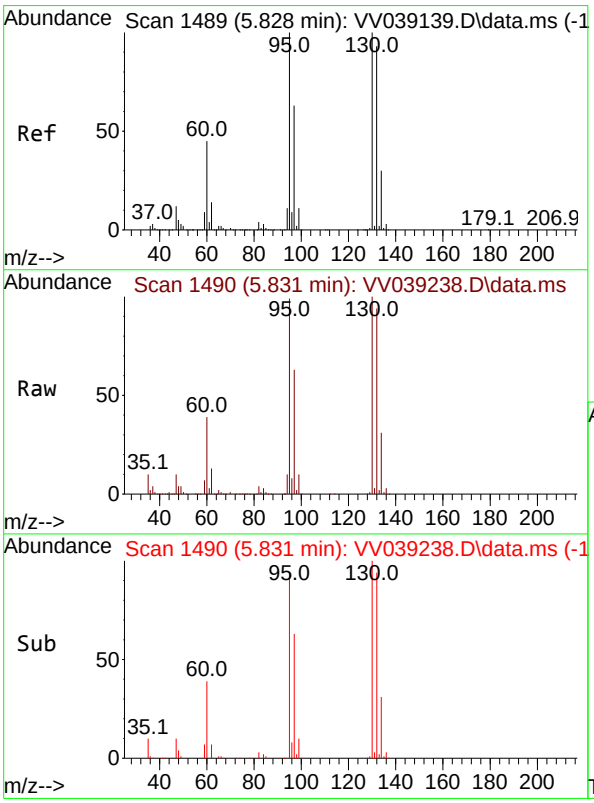
#43
Isopropyl Acetate
Concen: 49.723 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 43 Resp: 801758

Ion	Ratio	Lower	Upper
43	100		
61	21.9	15.9	23.9
87	14.8	11.0	16.6

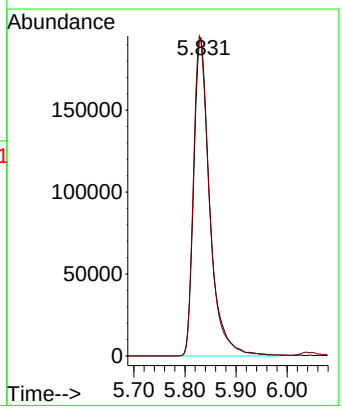


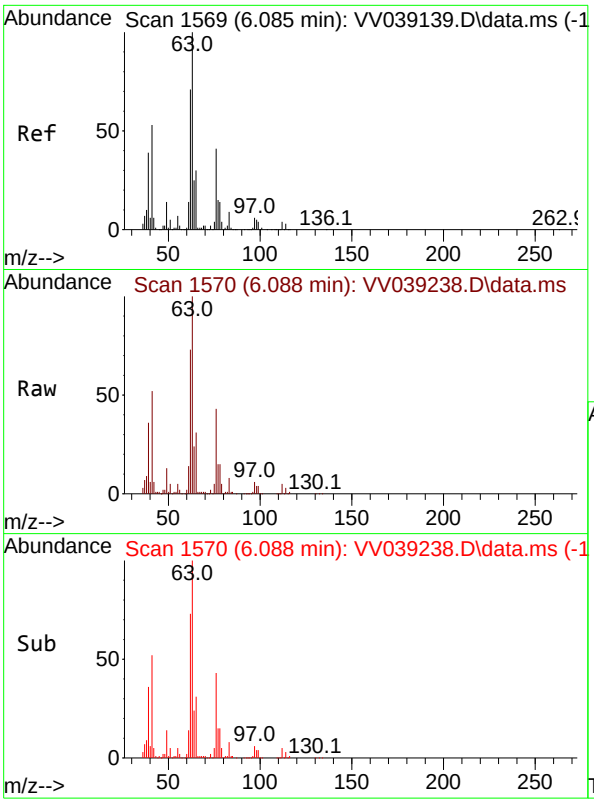


#44
Trichloroethene
Concen: 58.214 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:130 Resp: 426325

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	199.2



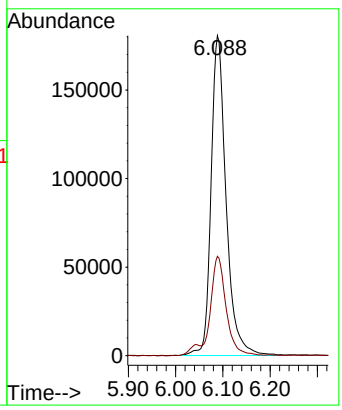


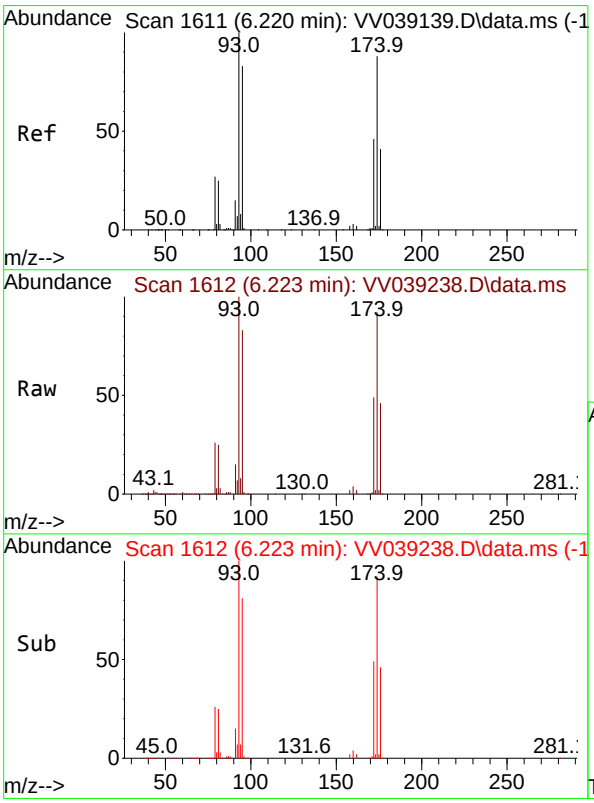
#45
1,2-Dichloropropane
Concen: 50.561 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 63 Resp: 398845

Ion	Ratio	Lower	Upper
63	100		
65	31.0	23.7	35.5

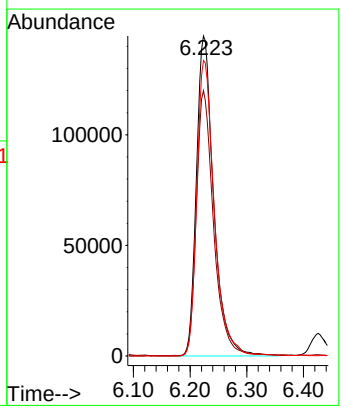


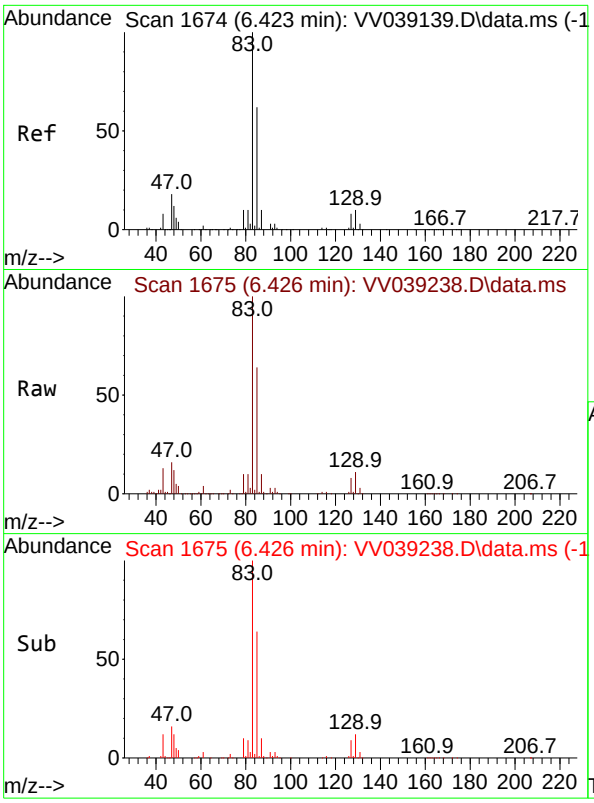


#46
Dibromomethane
Concen: 50.709 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 93 Resp: 306161

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.5	98.3
174	93.5	69.0	103.4



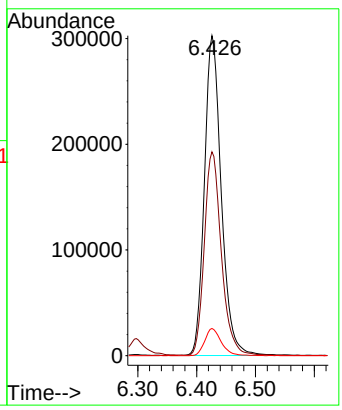


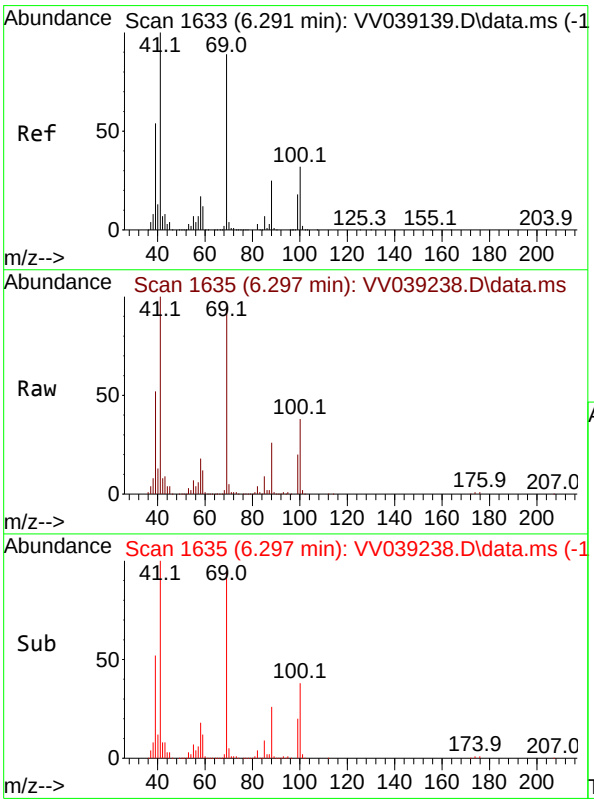
#47
Bromodichloromethane
Concen: 48.412 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 83 Resp: 604268

Ion	Ratio	Lower	Upper
83	100		
85	63.6	49.7	74.5
127	8.5	6.6	9.8

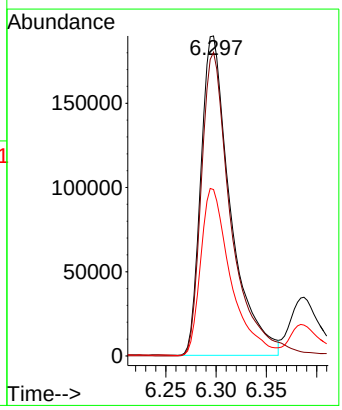


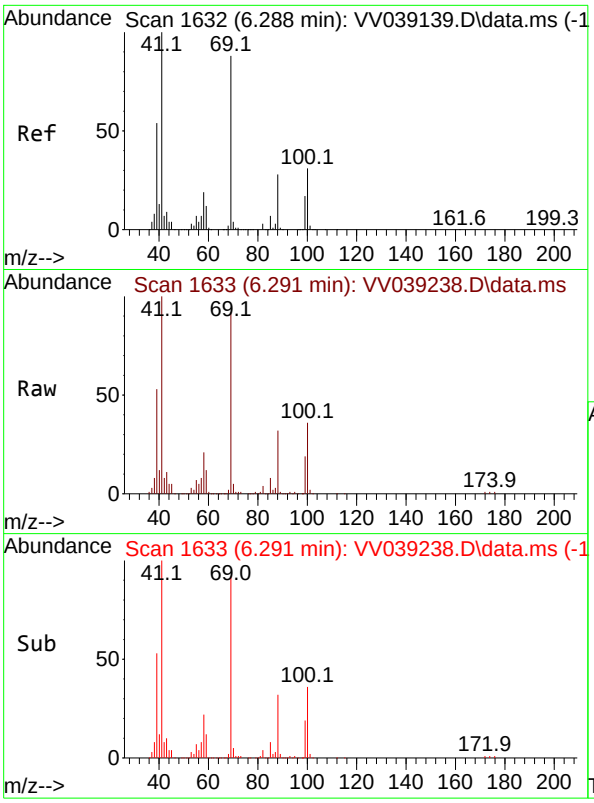


#48
Methyl methacrylate
Concen: 52.989 ug/l
RT: 6.297 min Scan# 1635
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 41 Resp: 387316

Ion	Ratio	Lower	Upper
41	100		
69	96.6	72.4	108.6
39	52.9	42.5	63.7



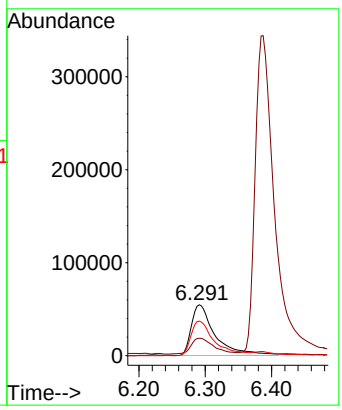


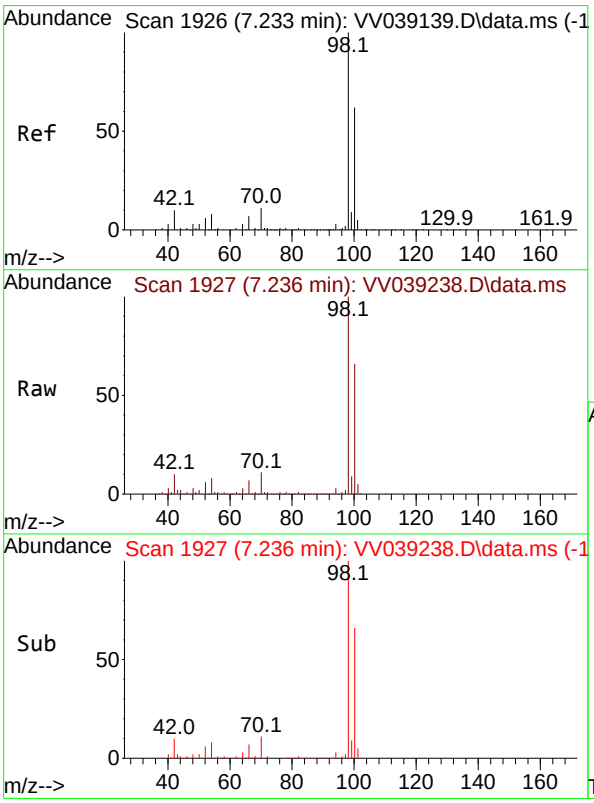
#49
1,4-Dioxane
Concen: 1158.527 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 88 Resp: 136656

Ion	Ratio	Lower	Upper
88	100		
43	29.9	25.1	37.7
58	66.5	53.6	80.4

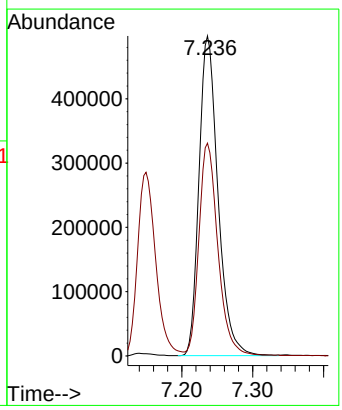


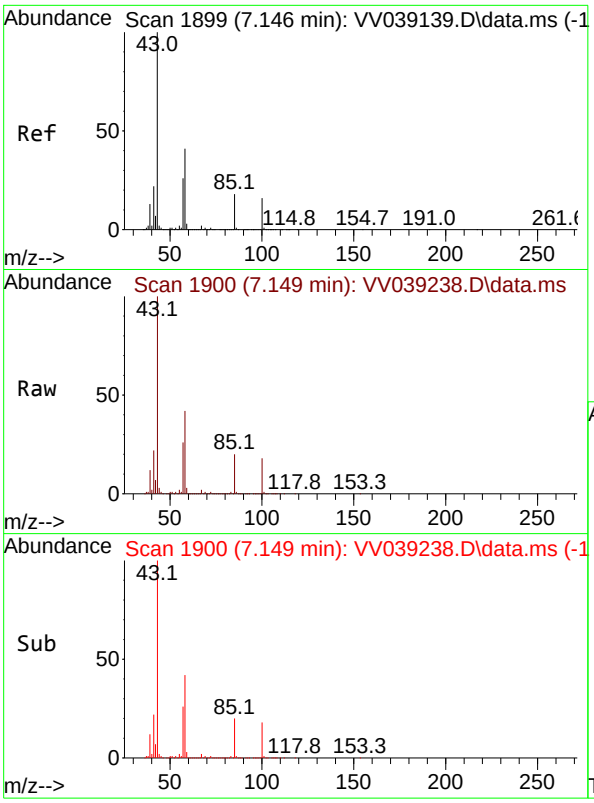


#50
Toluene-d8
Concen: 48.832 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 98 Resp: 924513

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.2	78.2



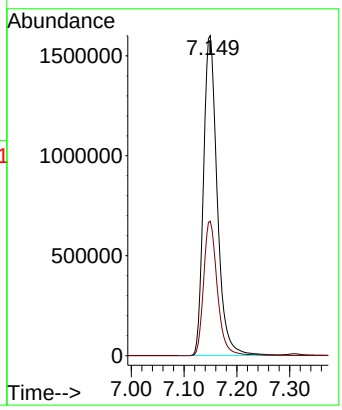


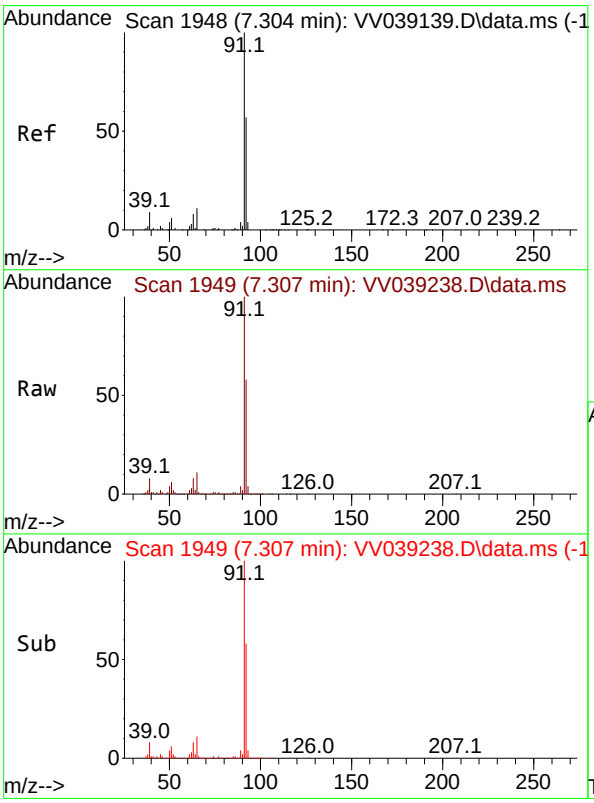
#51
4-Methyl-2-Pentanone
Concen: 272.884 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 43 Resp: 2894765

Ion	Ratio	Lower	Upper
43	100		
58	41.8	32.3	48.5

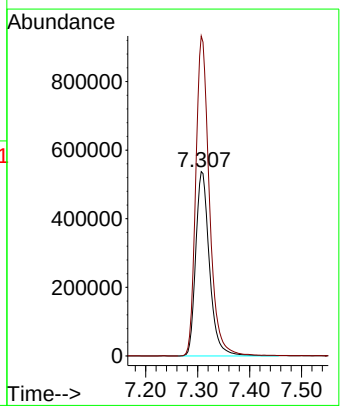


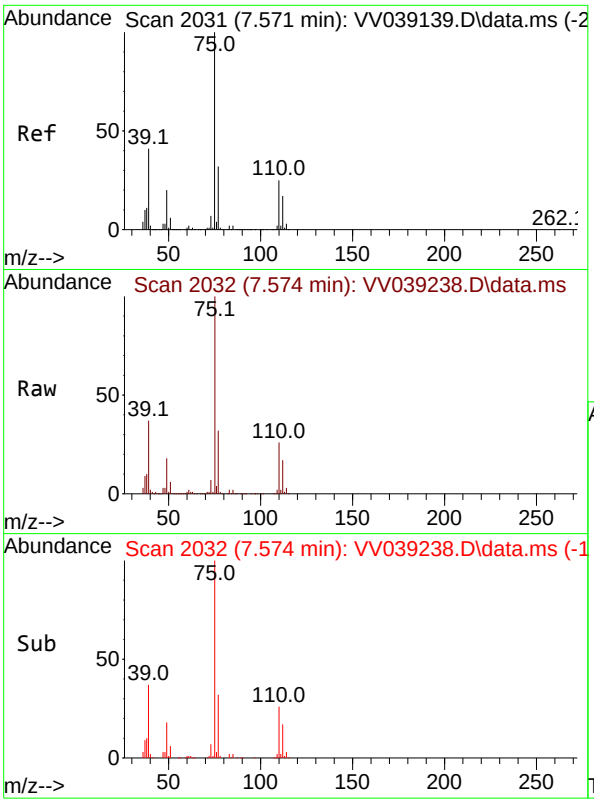


#52
Toluene
Concen: 53.684 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 92 Resp: 987839

Ion	Ratio	Lower	Upper
92	100		
91	171.6	139.2	208.8



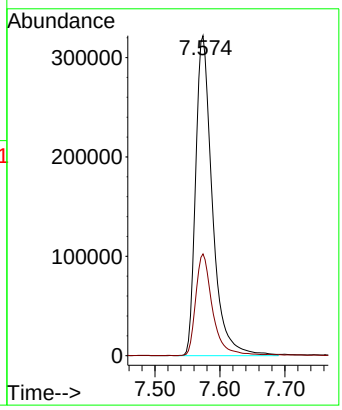


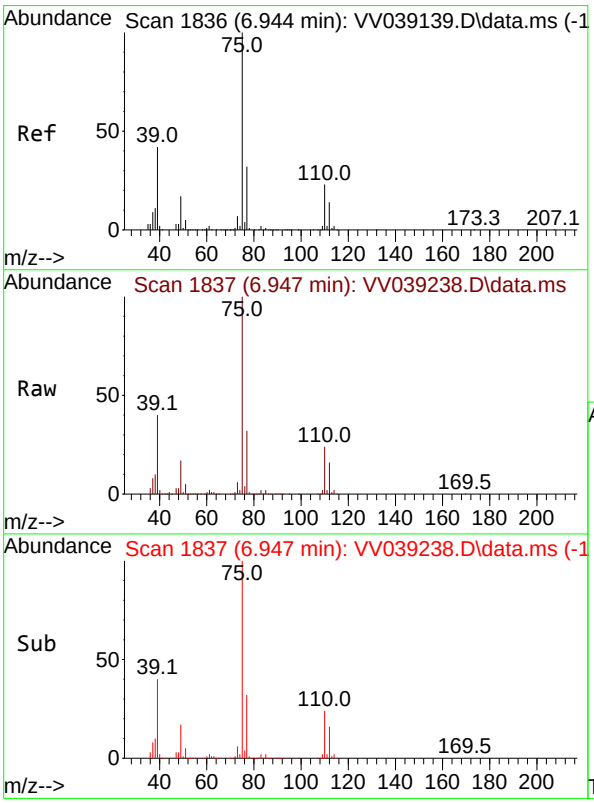
#53
t-1,3-Dichloropropene
Concen: 53.009 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 75 Resp: 576616

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.9	38.9

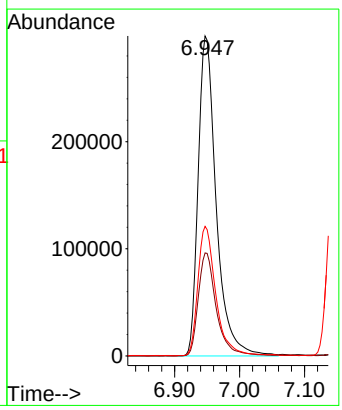


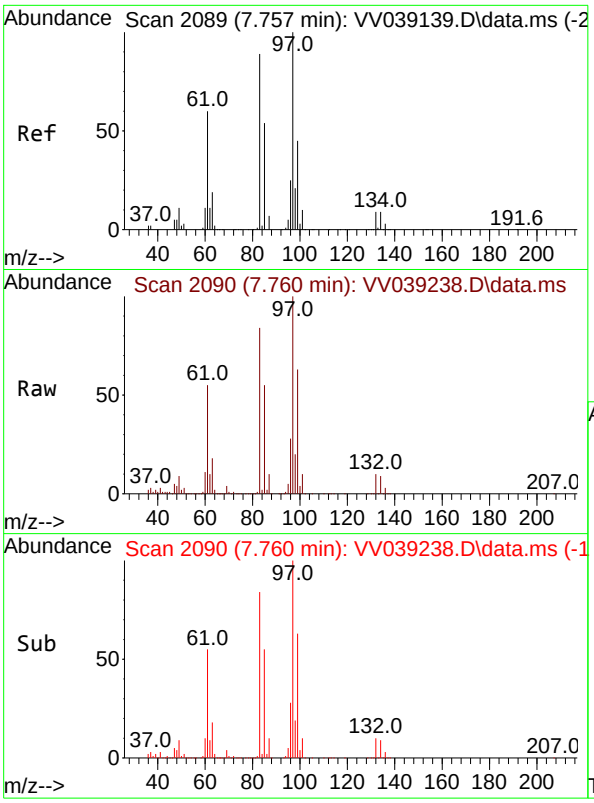


#54
cis-1,3-Dichloropropene
Concen: 48.168 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 75 Resp: 578415

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.5	38.3
39	40.4	33.8	50.6



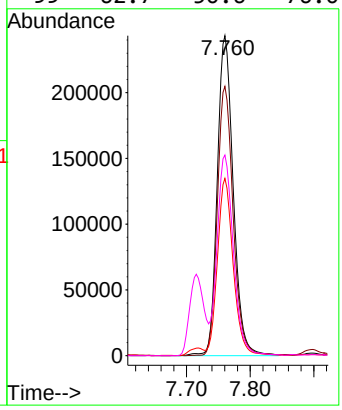


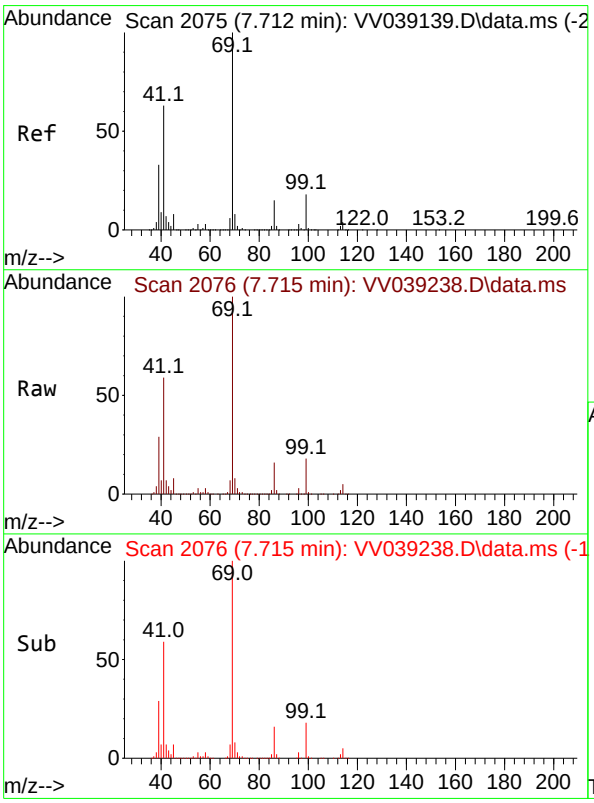
#55
1,1,2-Trichloroethane
Concen: 51.456 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 97 Resp: 424550

Ion	Ratio	Lower	Upper
97	100		
83	84.1	71.1	106.7
85	55.3	44.6	67.0
99	62.7	50.6	76.0

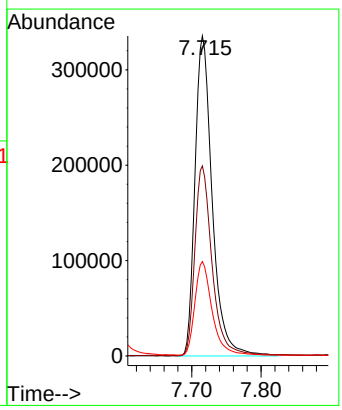


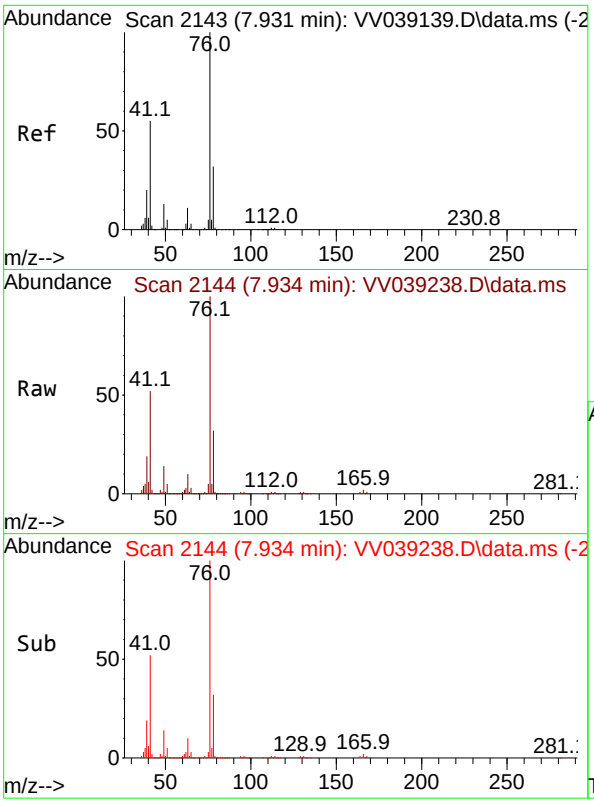


#56
Ethyl methacrylate
Concen: 59.454 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 69 Resp: 582543

Ion	Ratio	Lower	Upper
69	100		
41	58.9	50.7	76.1
39	29.0	26.0	39.0



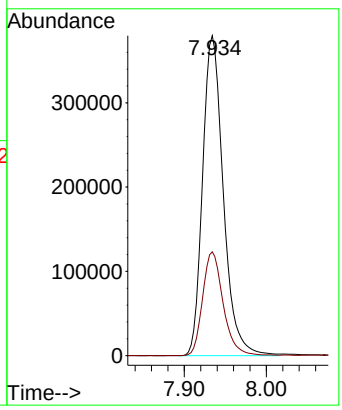


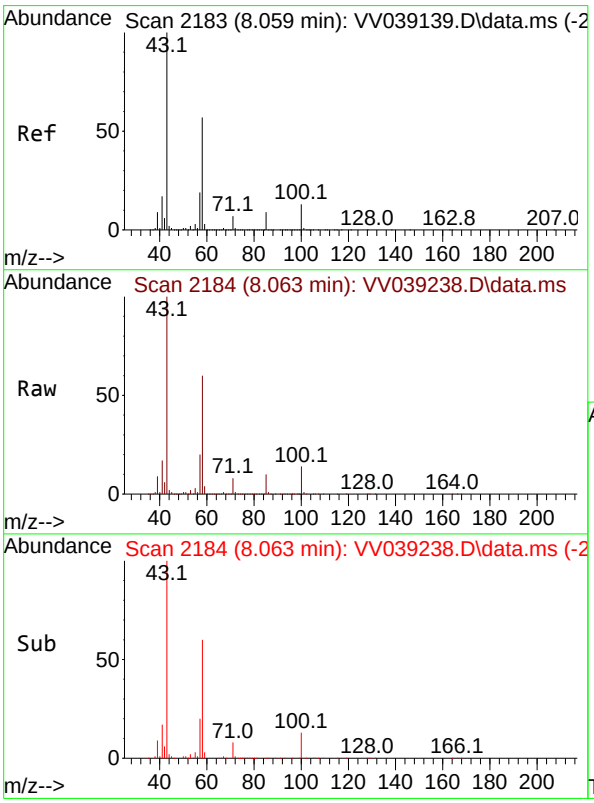
#57
1,3-Dichloropropane
Concen: 51.116 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 76 Resp: 665587

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.1	39.1

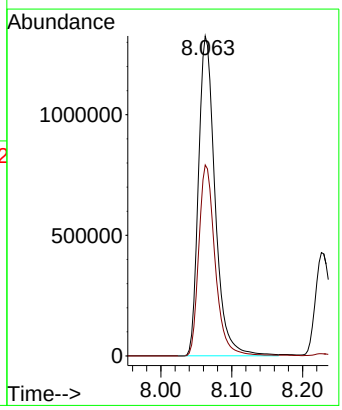


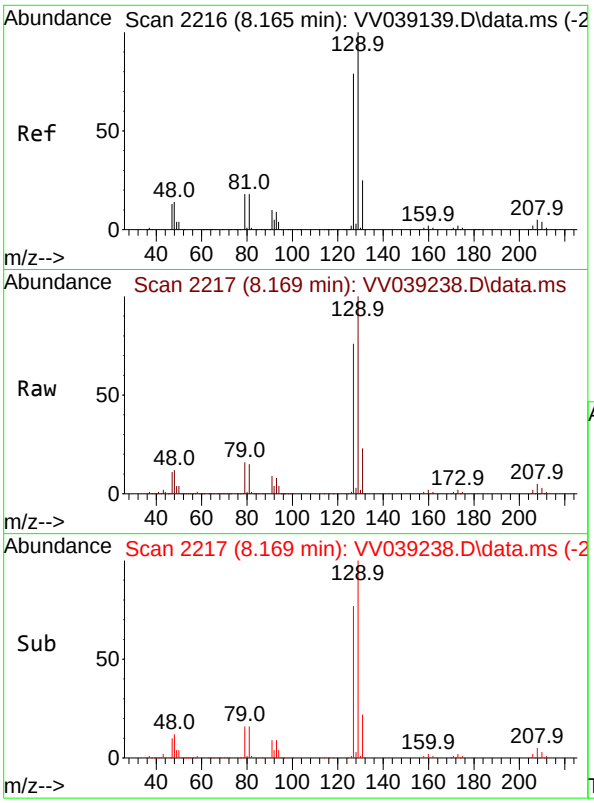


#59
2-Hexanone
Concen: 251.657 ug/l
RT: 8.063 min Scan# 2184
Delta R.T. 0.004 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 43 Resp: 2155011

Ion	Ratio	Lower	Upper
43	100		
58	59.3	28.3	85.0



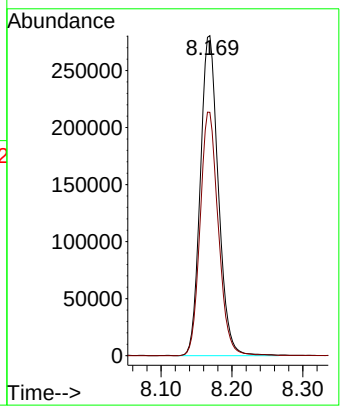


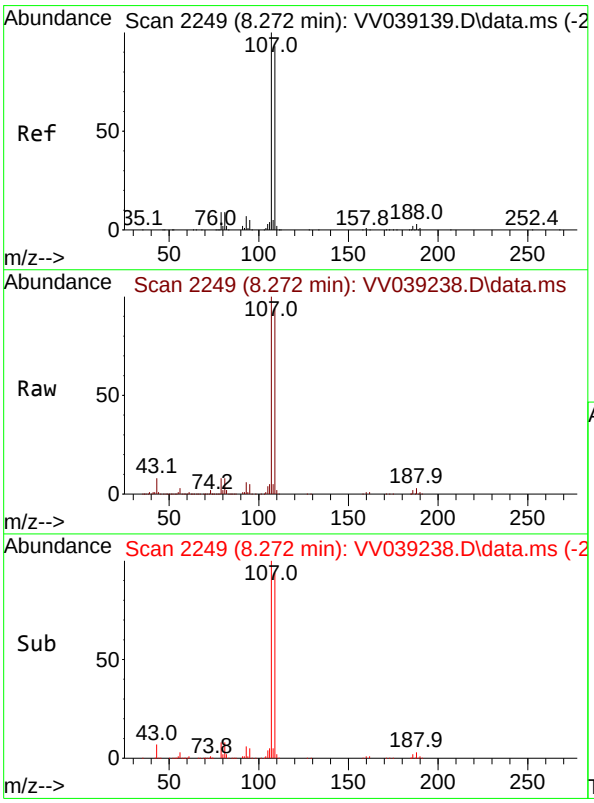
#60
Dibromochloromethane
Concen: 52.620 ug/l
RT: 8.169 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:129 Resp: 494699

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.3	117.9

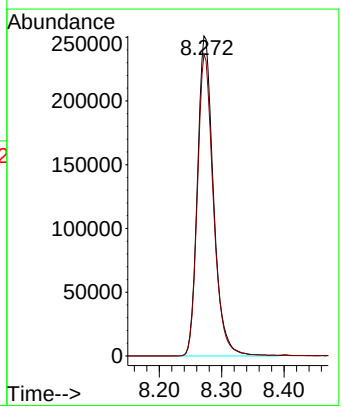


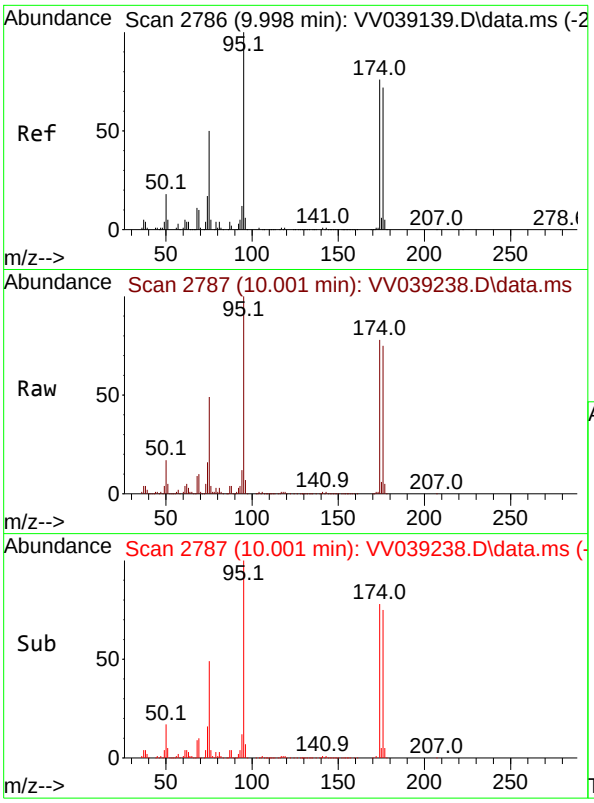


#61
1,2-Dibromoethane
Concen: 53.102 ug/l
RT: 8.272 min Scan# 2249
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:107 Resp: 448069

Ion	Ratio	Lower	Upper
107	100		
109	94.1	74.6	112.0



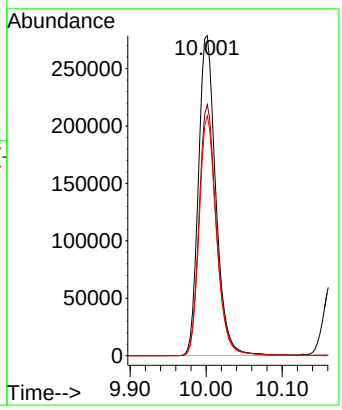


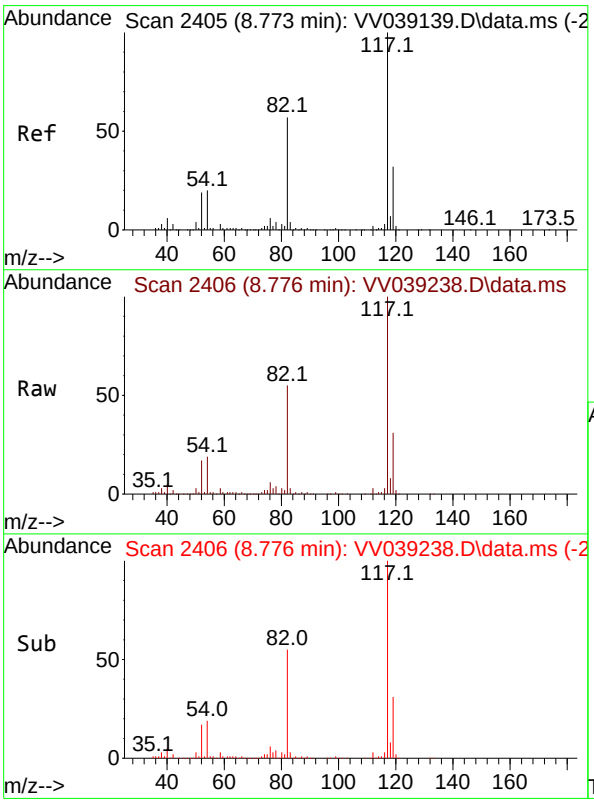
#62
4-Bromofluorobenzene
Concen: 56.800 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 95 Resp: 442703

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	150.4
176	74.7	0.0	144.2

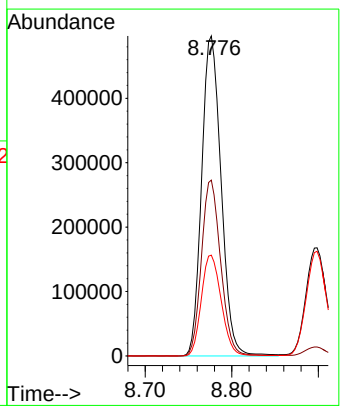


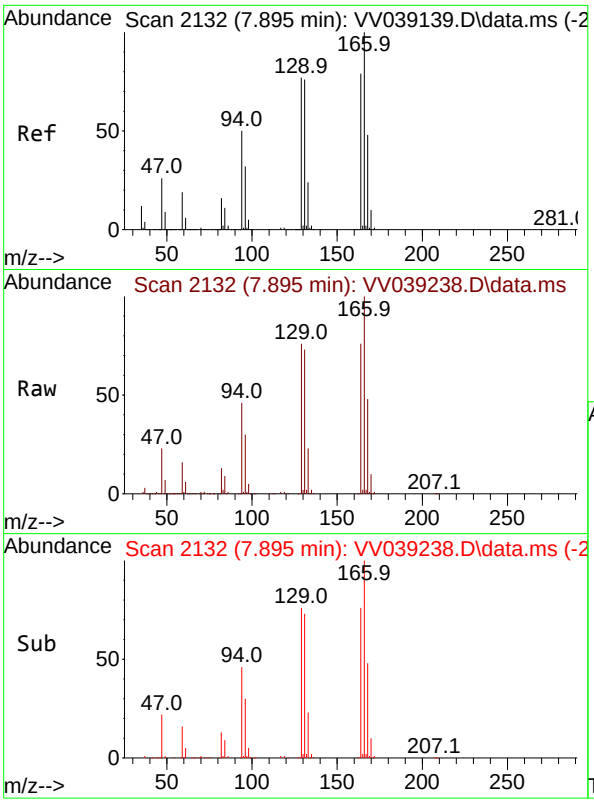


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:117 Resp: 776445

Ion	Ratio	Lower	Upper
117	100		
82	55.0	45.4	68.2
119	31.5	25.6	38.4



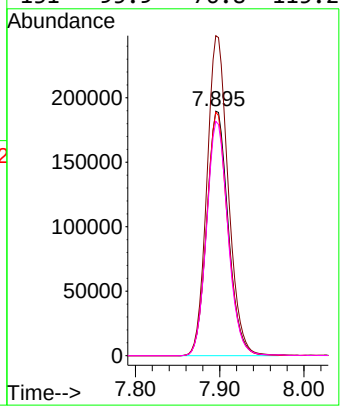


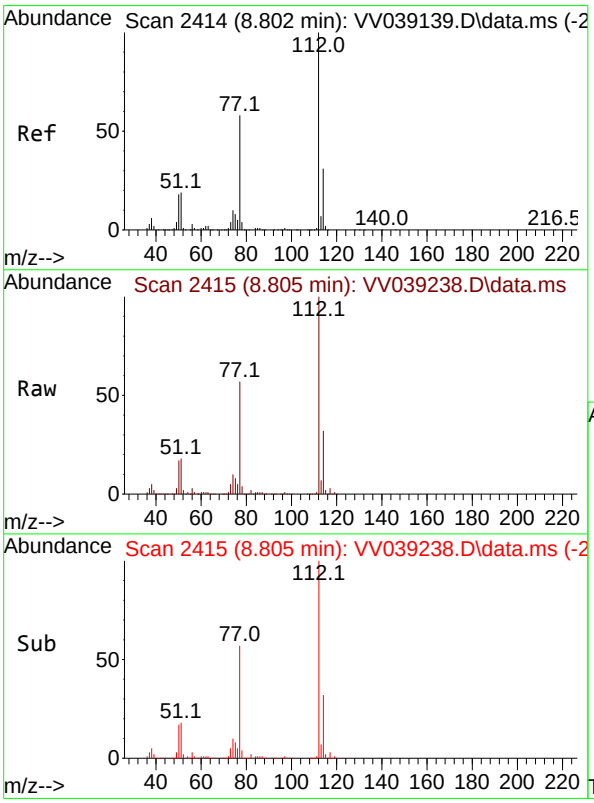
#64
Tetrachloroethene
Concen: 51.720 ug/l
RT: 7.895 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:164 Resp: 336355

Ion	Ratio	Lower	Upper
164	100		
166	130.9	101.6	152.4
129	99.6	78.5	117.7
131	95.9	76.8	115.2

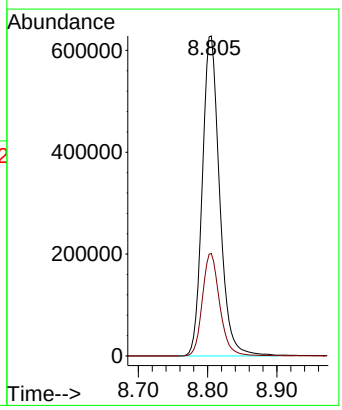


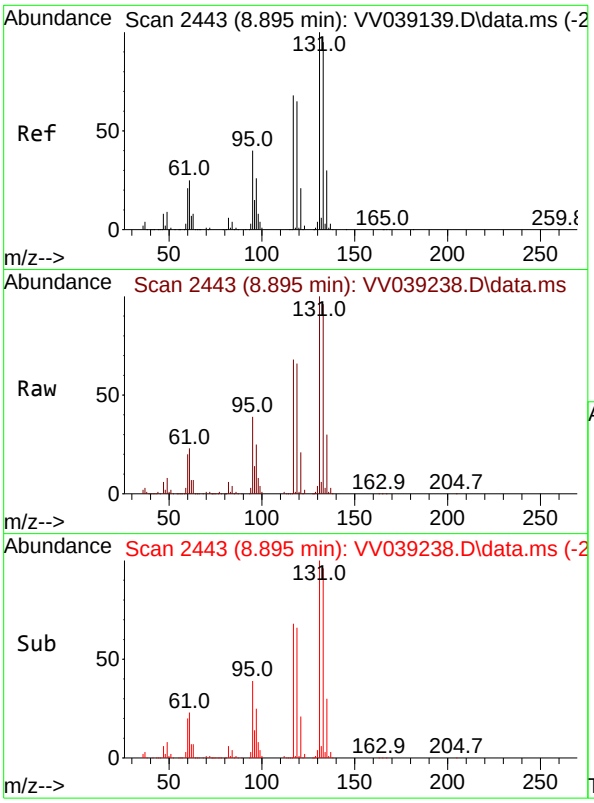


#65
Chlorobenzene
Concen: 50.323 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:112 Resp: 1088354

Ion	Ratio	Lower	Upper
112	100		
114	32.0	24.6	37.0



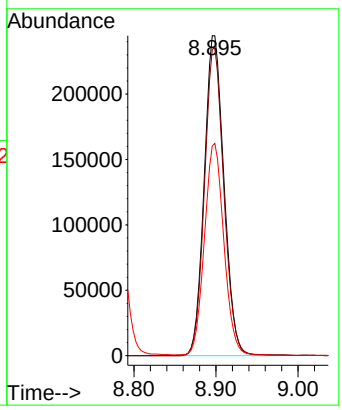


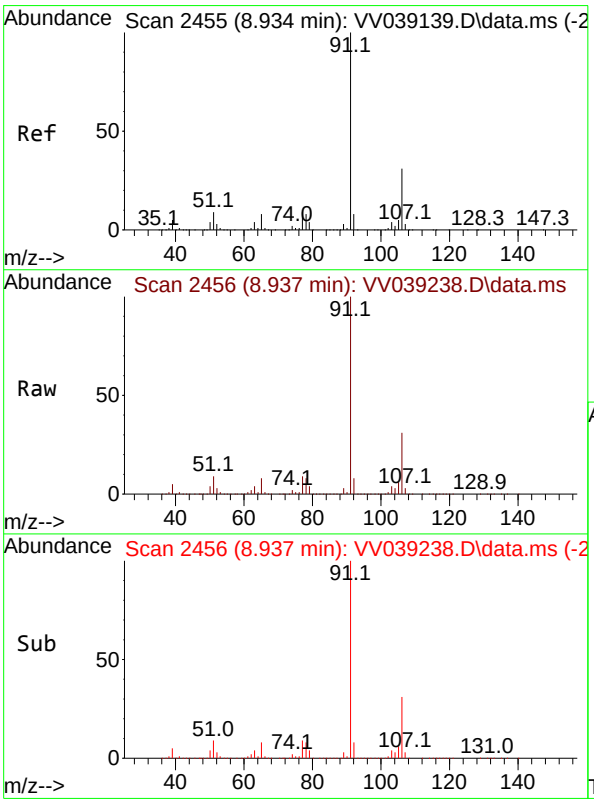
#66
1,1,1,2-Tetrachloroethane
Concen: 52.289 ug/l
RT: 8.895 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:131 Resp: 408617

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.8
119	65.0	33.3	99.8

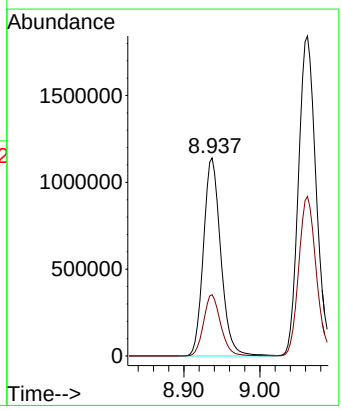


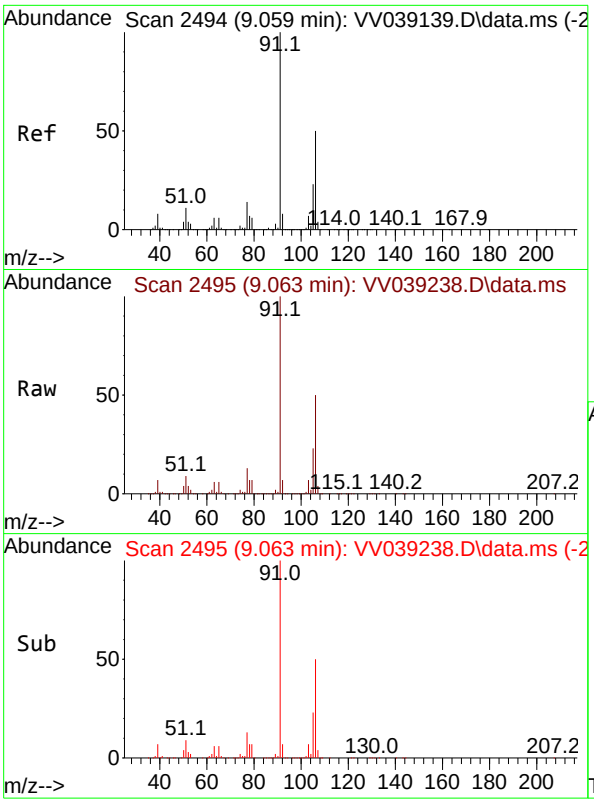


#67
Ethyl Benzene
Concen: 55.133 ug/l
RT: 8.937 min Scan# 2456
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 91 Resp: 1804937

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0



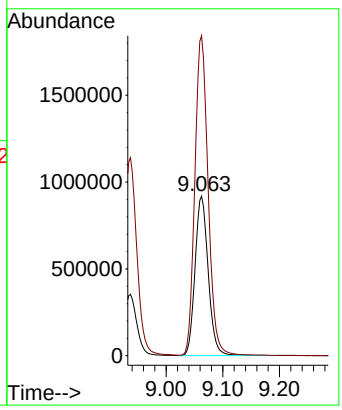


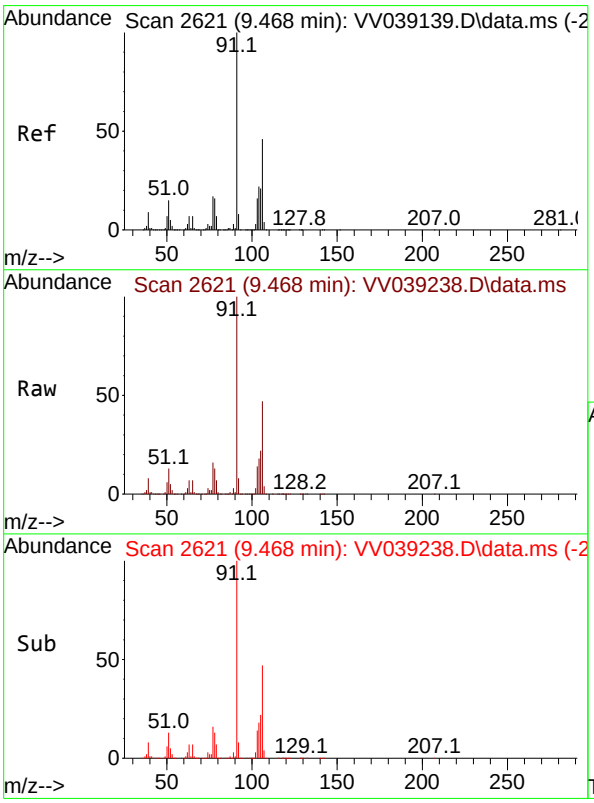
#68
m/p-Xylenes
Concen: 117.156 ug/l
RT: 9.063 min Scan# 24
Delta R.T. 0.004 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:106 Resp: 1480331

Ion	Ratio	Lower	Upper
106	100		
91	202.1	162.5	243.7

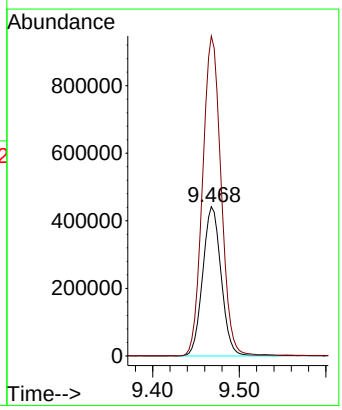


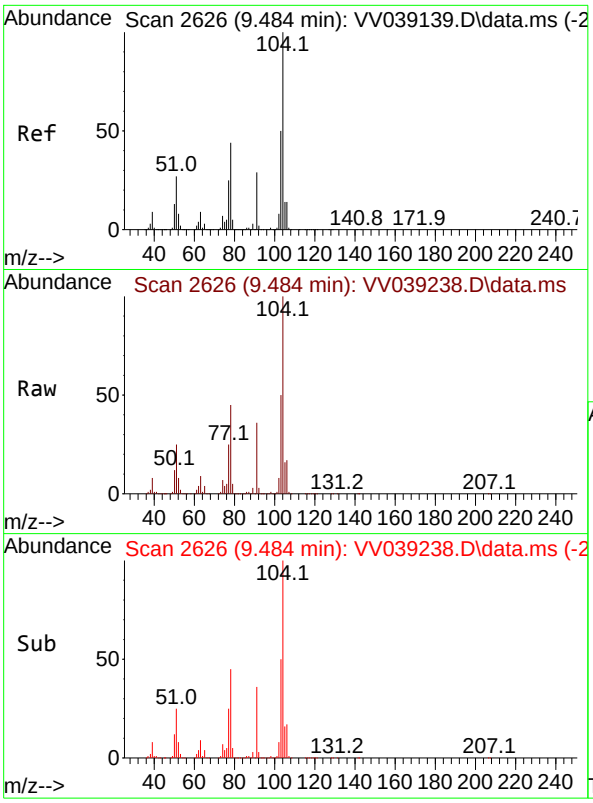


#69
o-Xylene
Concen: 58.228 ug/l
RT: 9.468 min Scan# 2621
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:106 Resp: 651457

Ion	Ratio	Lower	Upper
106	100		
91	215.9	109.1	327.3



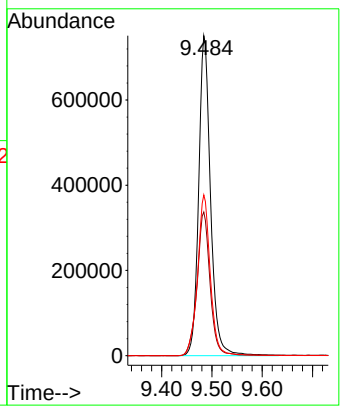


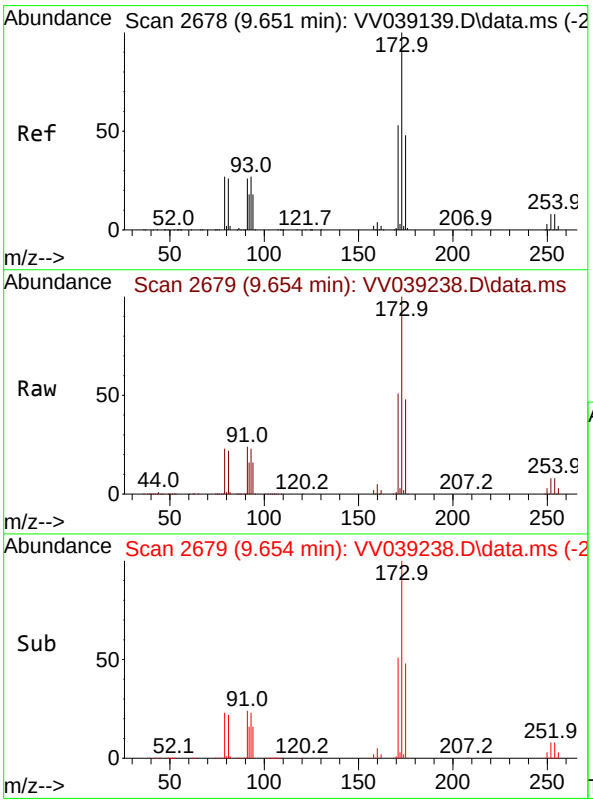
#70
Styrene
Concen: 52.111 ug/l
RT: 9.484 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:104 Resp: 1236246

Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.8	59.6
103	54.1	43.4	65.2

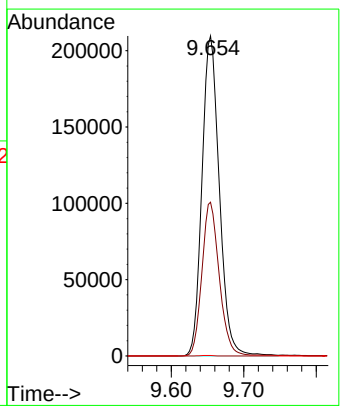


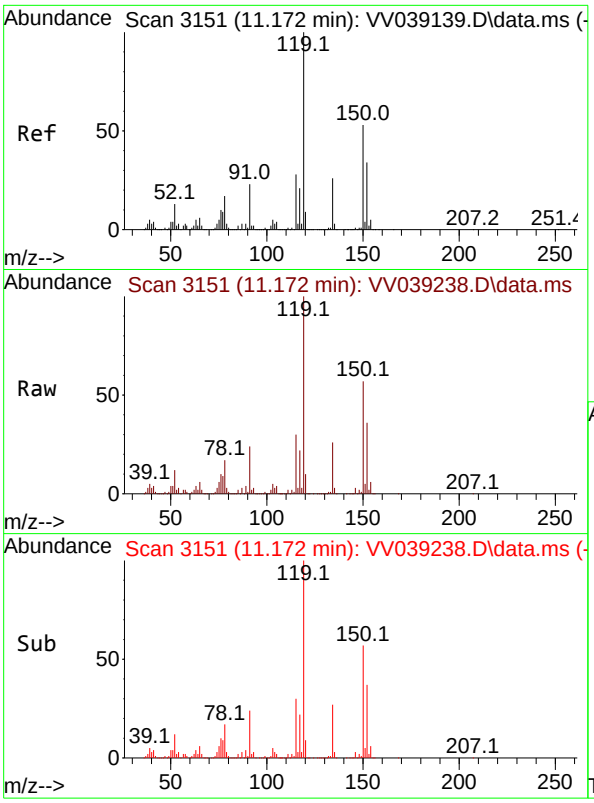


#71
Bromoform
Concen: 57.122 ug/l
RT: 9.654 min Scan# 2679
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:173 Resp: 348675

Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.9	71.7
254	0.1	0.1	0.1



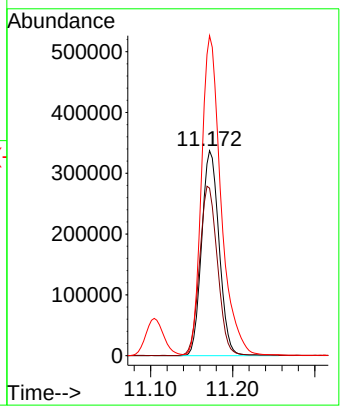


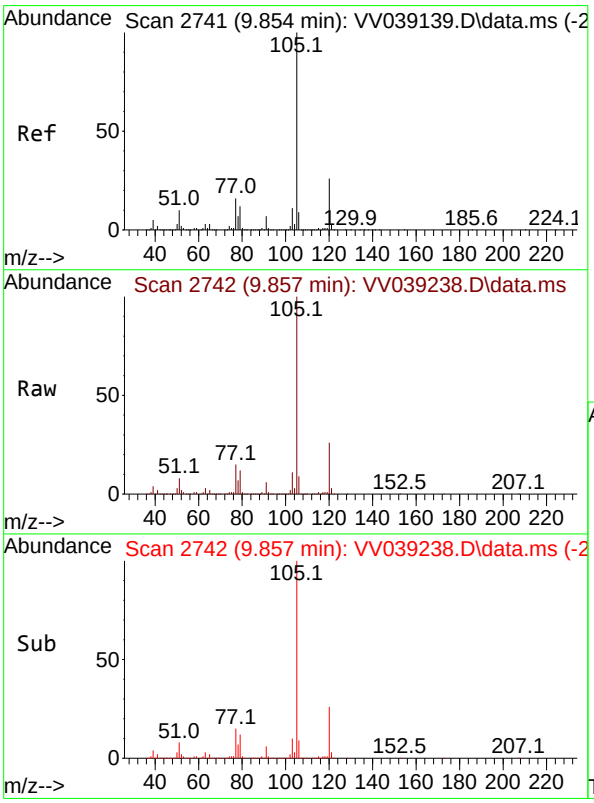
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:152 Resp: 497049

Ion	Ratio	Lower	Upper
152	100		
115	85.1	44.8	134.4
150	174.8	0.0	353.8

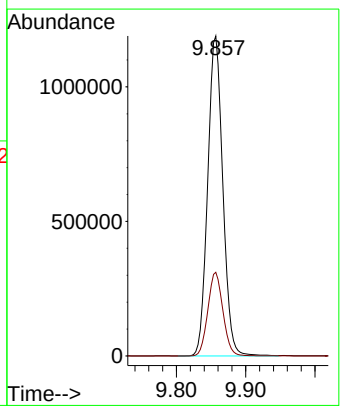


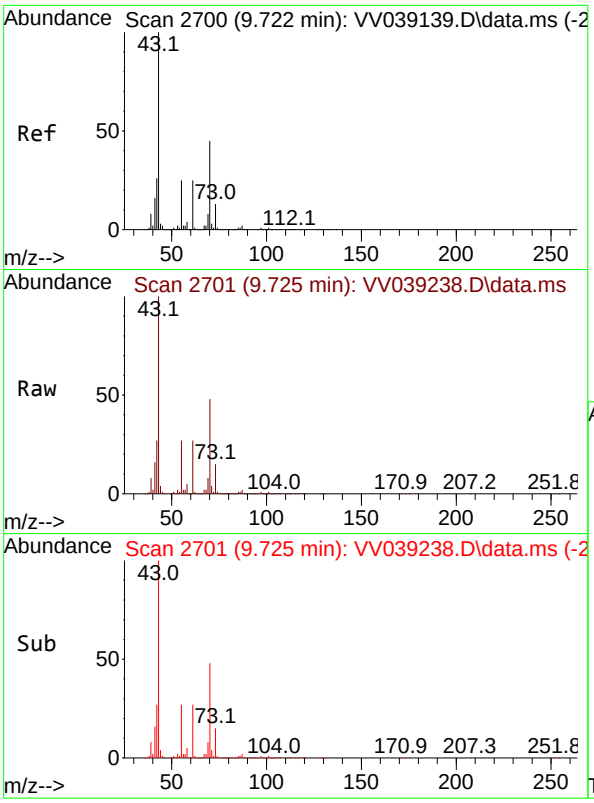


#73
Isopropylbenzene
Concen: 49.780 ug/l
RT: 9.857 min Scan# 2742
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:105 Resp: 1794634

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.1	39.1



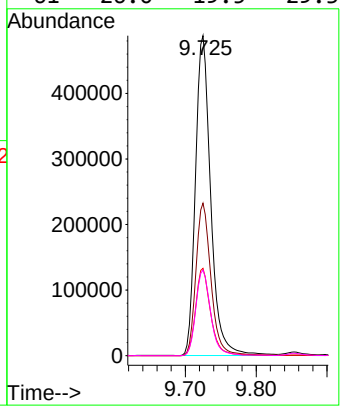


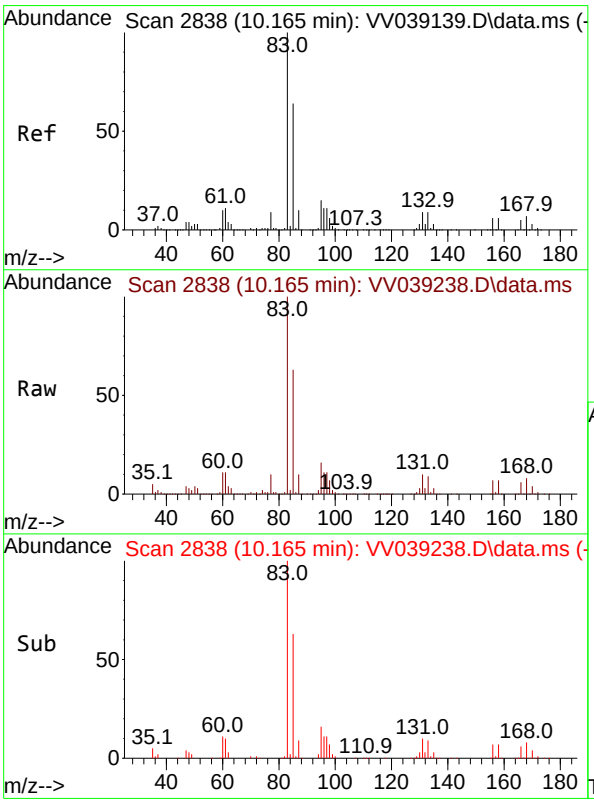
#74
N-amyl acetate
Concen: 50.831 ug/l
RT: 9.725 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 43 Resp: 730955

Ion	Ratio	Lower	Upper
43	100		
70	47.2	35.4	53.0
55	27.0	20.6	30.8
61	26.0	19.5	29.3

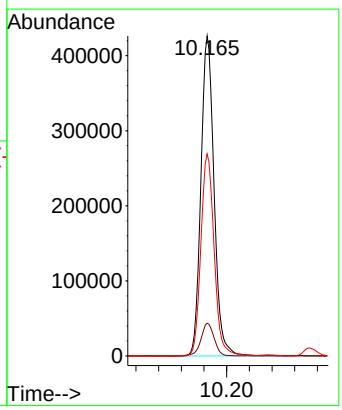


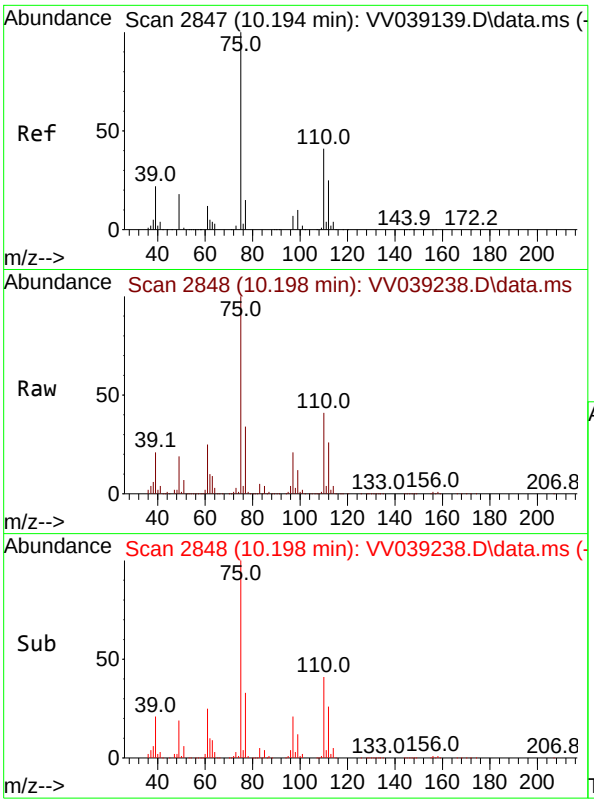


#75
1,1,2,2-Tetrachloroethane
Concen: 43.414 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 83 Resp: 685760

Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.5	13.7
85	63.8	31.9	95.9



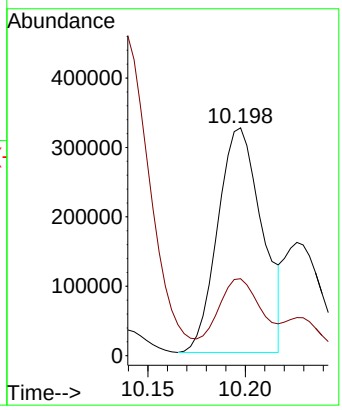


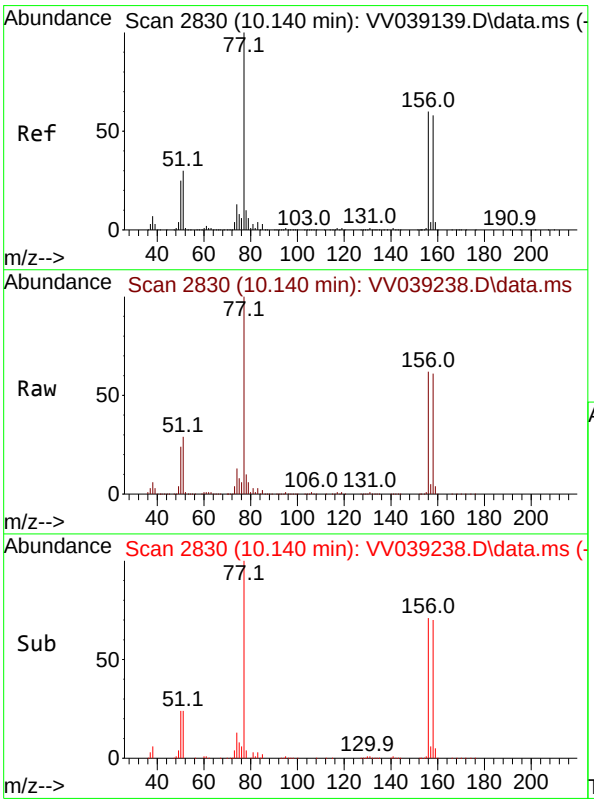
#76
1,2,3-Trichloropropane
Concen: 45.346 ug/l
RT: 10.198 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 75 Resp: 513184

Ion	Ratio	Lower	Upper
75	100		
77	23.3	11.3	33.8

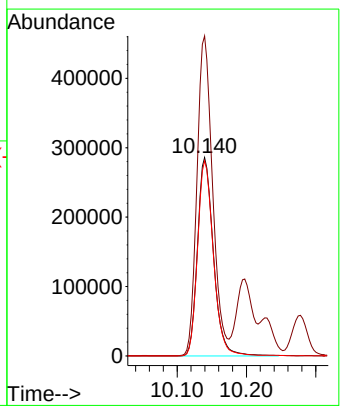


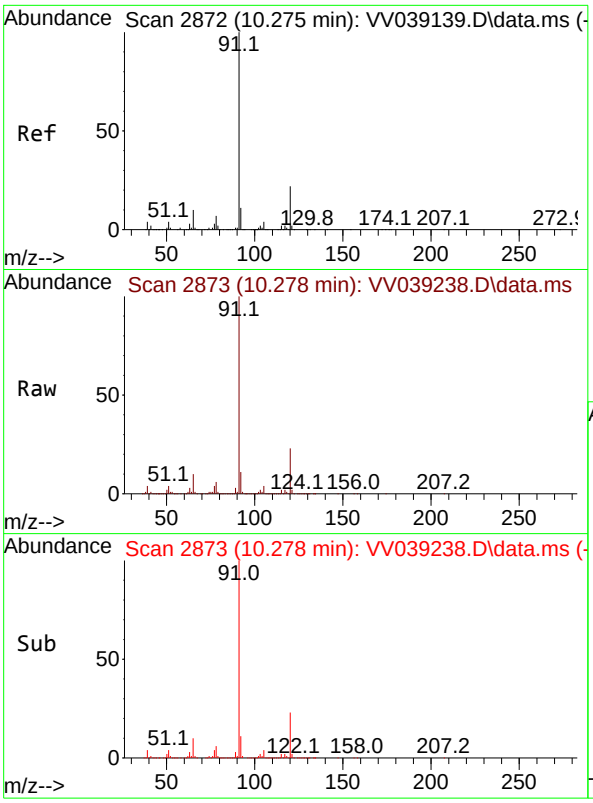


#77
Bromobenzene
Concen: 49.012 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:156 Resp: 458429

Ion	Ratio	Lower	Upper
156	100		
77	157.7	83.4	250.1
158	97.5	48.8	146.4



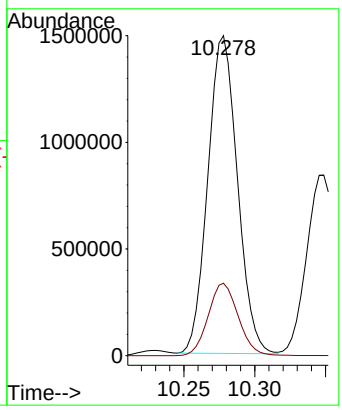


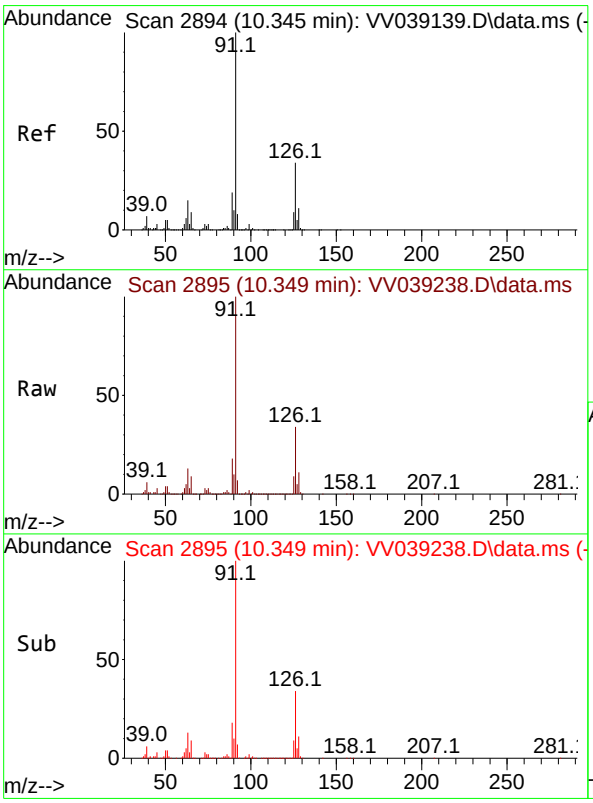
#78
n-propylbenzene
Concen: 49.233 ug/l
RT: 10.278 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 91 Resp: 2161429

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.1	33.3

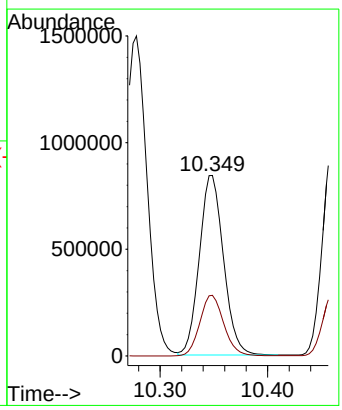


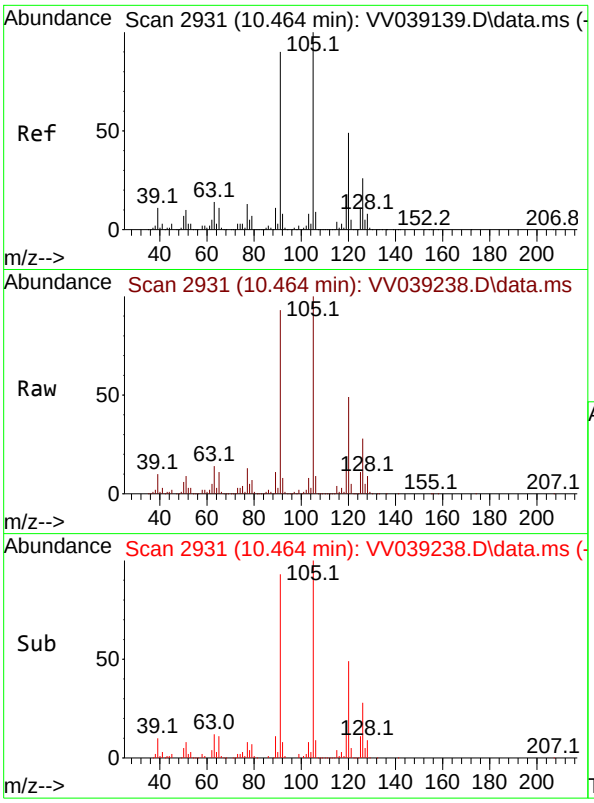


#79
2-Chlorotoluene
Concen: 50.010 ug/l
RT: 10.349 min Scan# 2895
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 91 Resp: 1313750

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.7	50.0



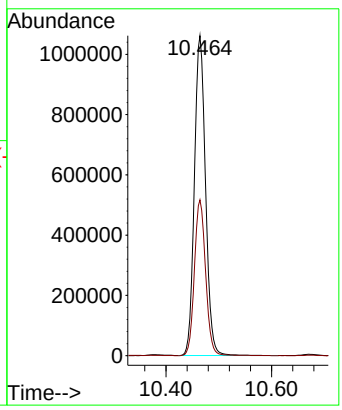


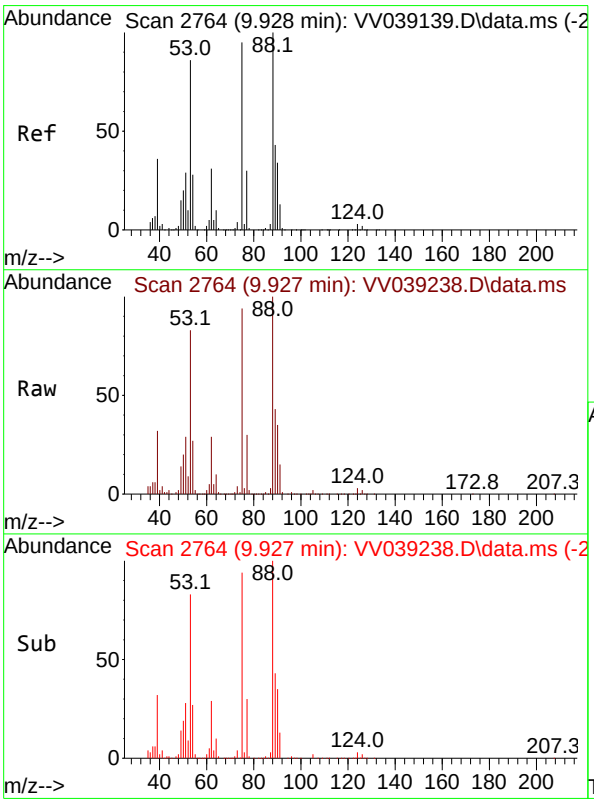
#80
1,3,5-Trimethylbenzene
Concen: 51.751 ug/l
RT: 10.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:105 Resp: 1550730

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.3	72.8

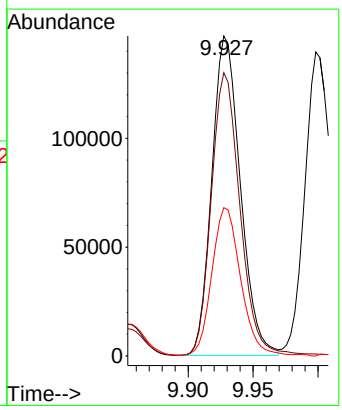


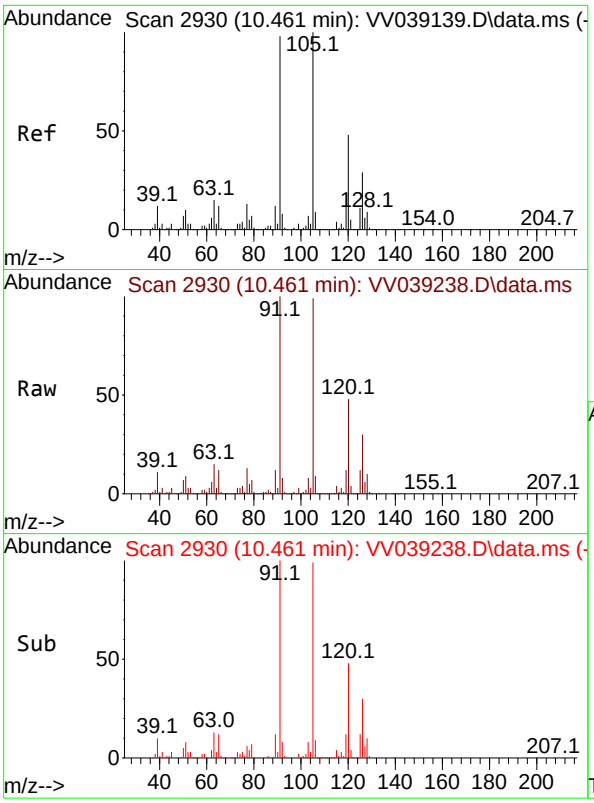


#81
trans-1,4-Dichloro-2-butene
Concen: 47.618 ug/l
RT: 9.927 min Scan# 2764
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 75 Resp: 224474

Ion	Ratio	Lower	Upper
75	100		
53	88.3	72.5	108.7
89	47.1	37.2	55.8



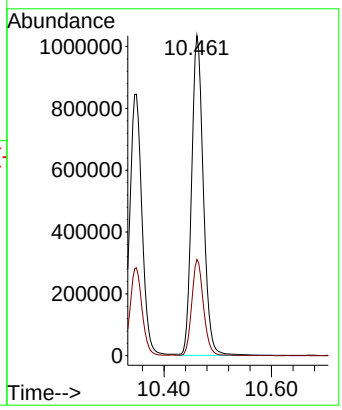


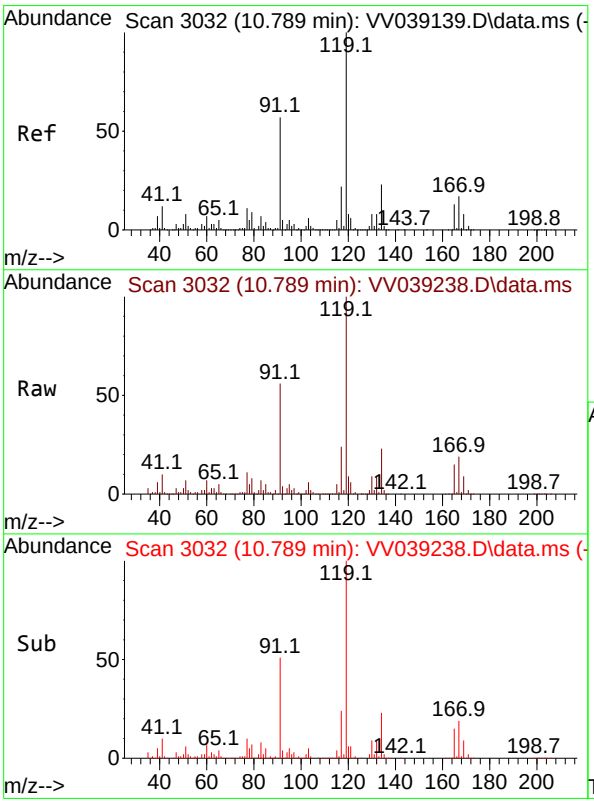
#82
4-Chlorotoluene
Concen: 51.389 ug/l
RT: 10.461 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 91 Resp: 1565365

Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.5	43.6

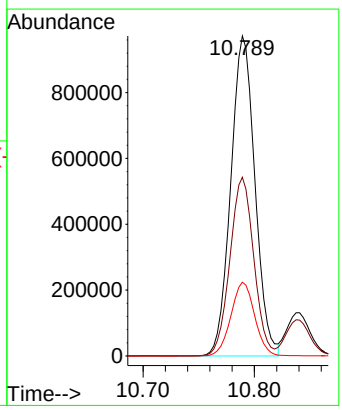


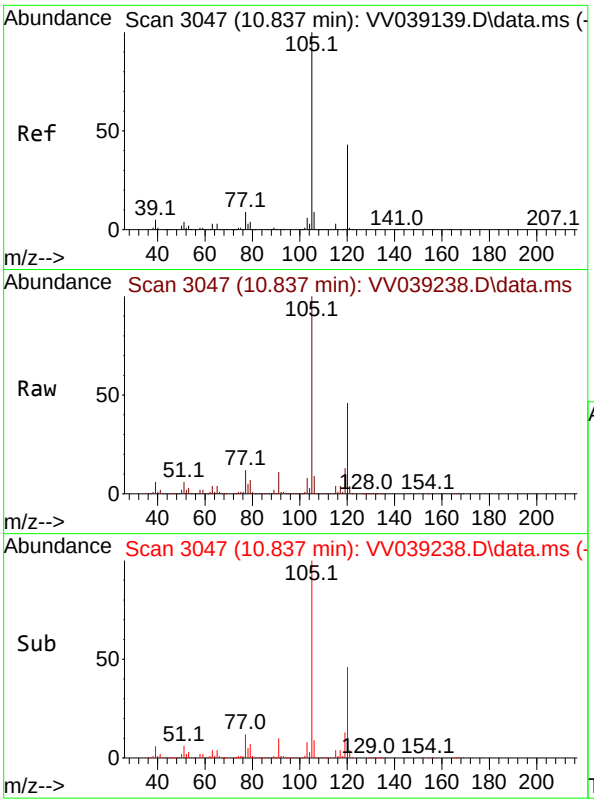


#83
tert-Butylbenzene
Concen: 49.102 ug/l
RT: 10.789 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:119 Resp: 1467159

Ion	Ratio	Lower	Upper
119	100		
91	55.1	28.5	85.6
134	22.7	11.5	34.4



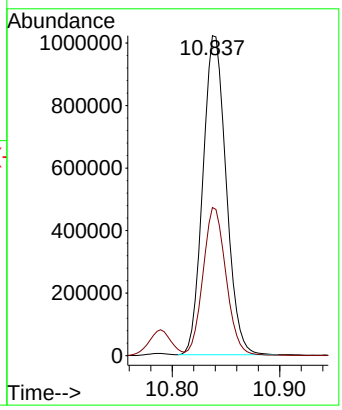


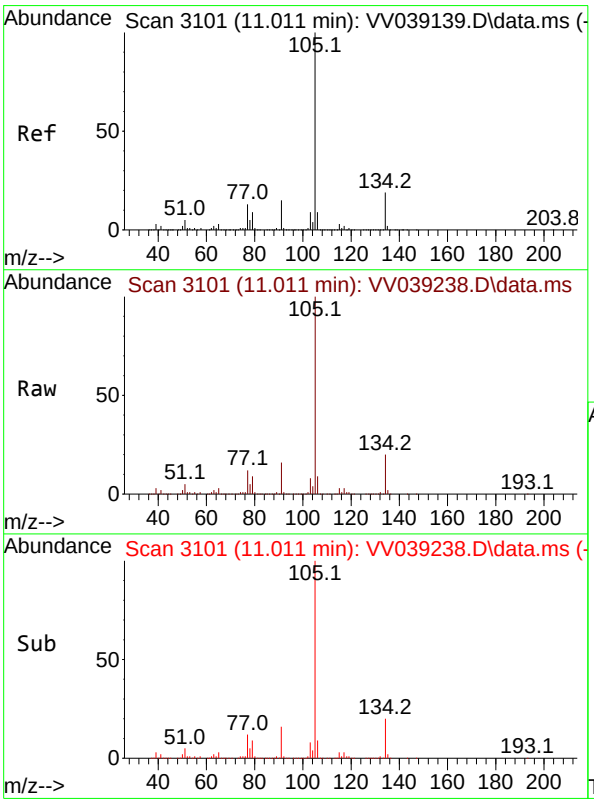
#84
1,2,4-Trimethylbenzene
Concen: 52.732 ug/l
RT: 10.837 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:105 Resp: 1534040

Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.4	67.2

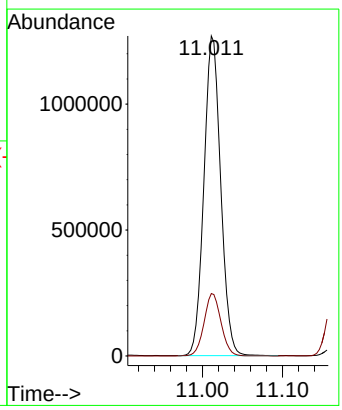


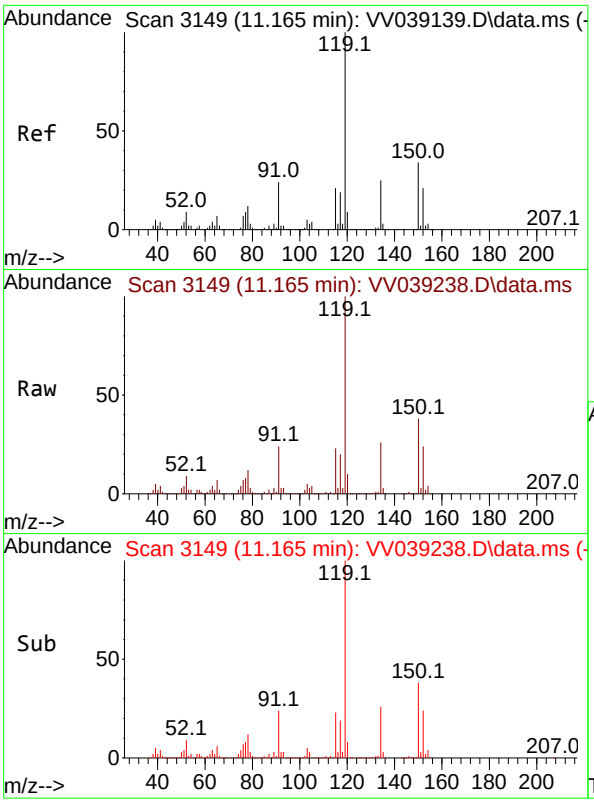


#85
sec-Butylbenzene
Concen: 46.872 ug/l
RT: 11.011 min Scan# 3101
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:105 Resp: 1857611

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.6	28.8



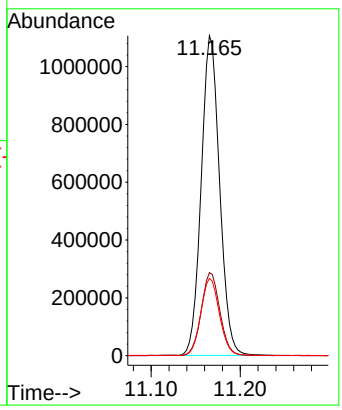


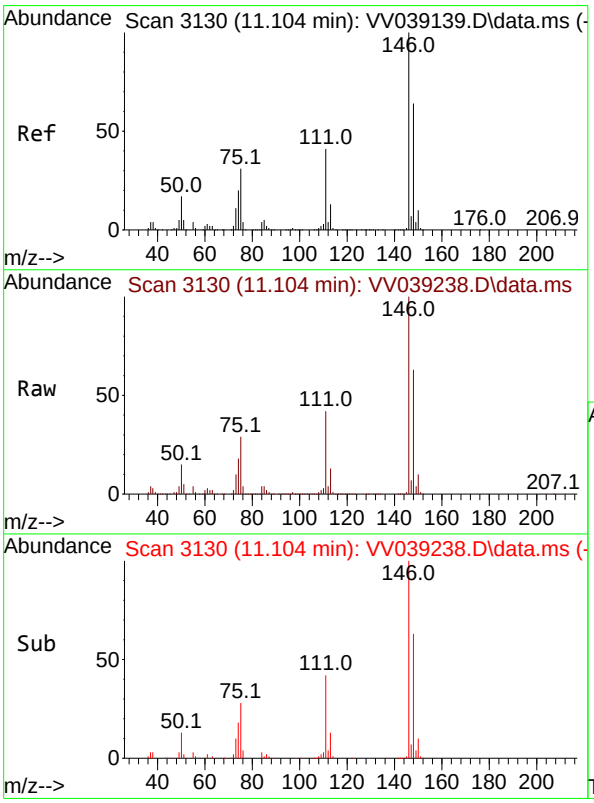
#86
p-Isopropyltoluene
Concen: 47.979 ug/l
RT: 11.165 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:119 Resp: 1582644

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.7	38.0
91	24.5	12.0	36.1

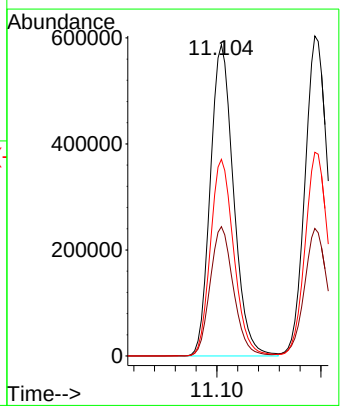


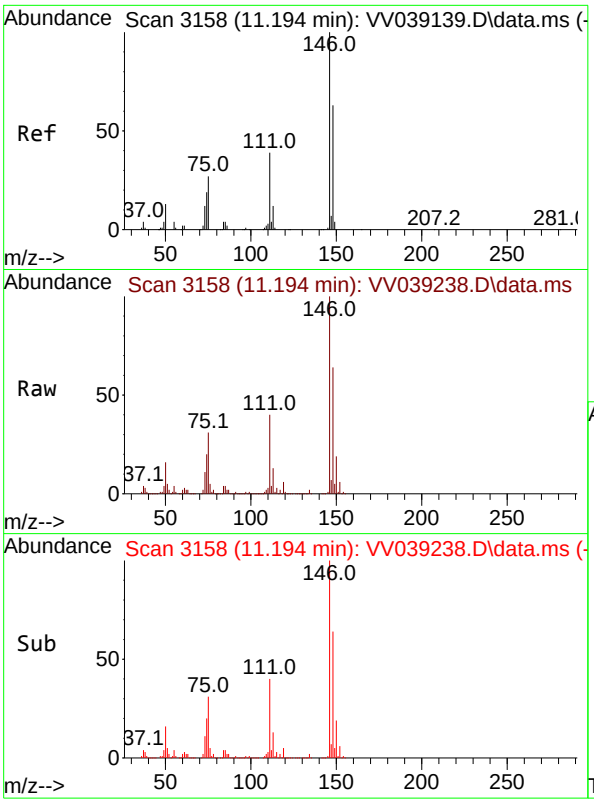


#87
1,3-Dichlorobenzene
Concen: 48.268 ug/l
RT: 11.104 min Scan# 3130
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:146 Resp: 913700

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.9	62.8
148	63.6	31.8	95.3



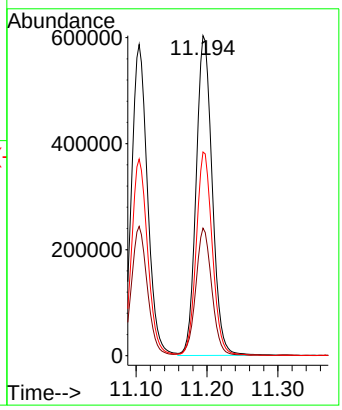


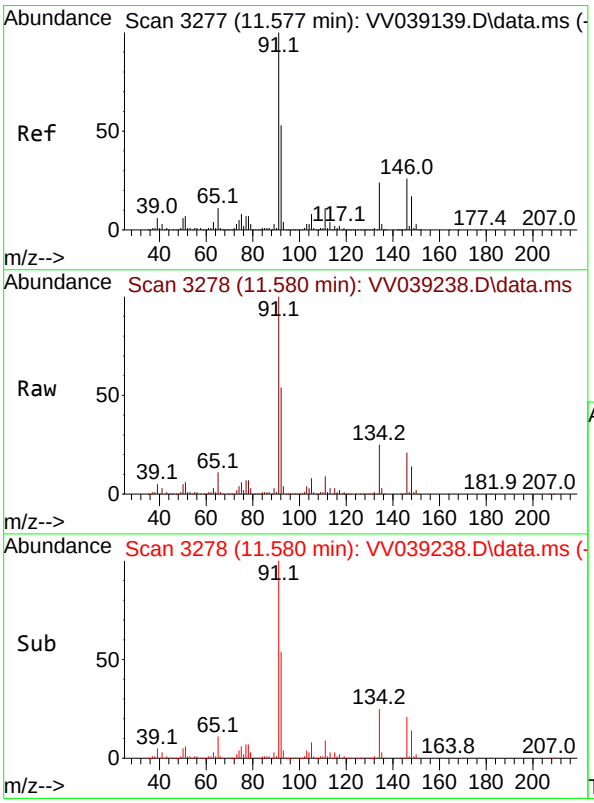
#88
1,4-Dichlorobenzene
Concen: 45.793 ug/l
RT: 11.194 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:146 Resp: 951037

Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.3	60.8
148	63.7	31.4	94.2

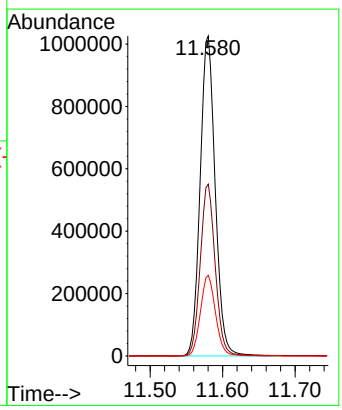


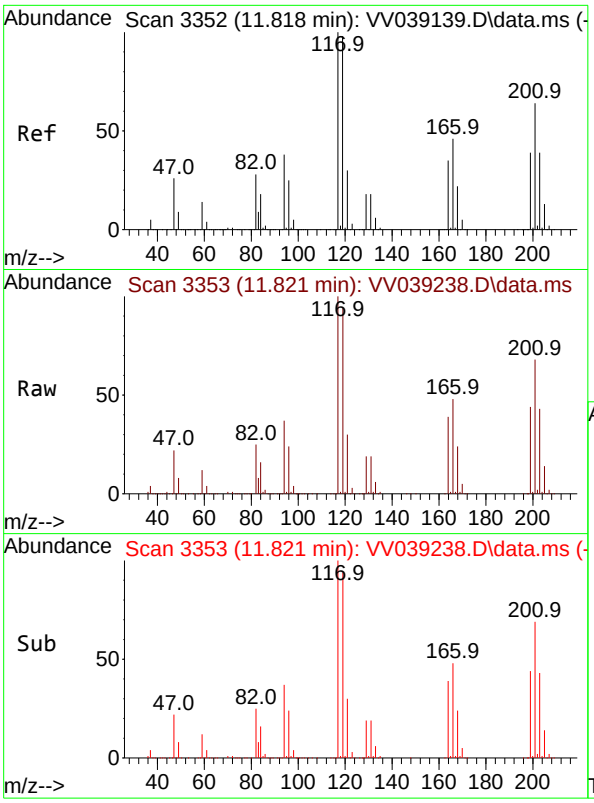


#89
n-Butylbenzene
Concen: 47.022 ug/l
RT: 11.580 min Scan# 3278
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 91 Resp: 1481352

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.8
134	25.3	12.1	36.3



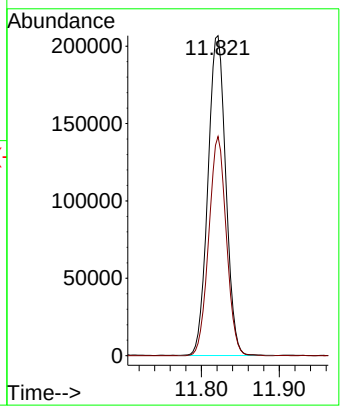


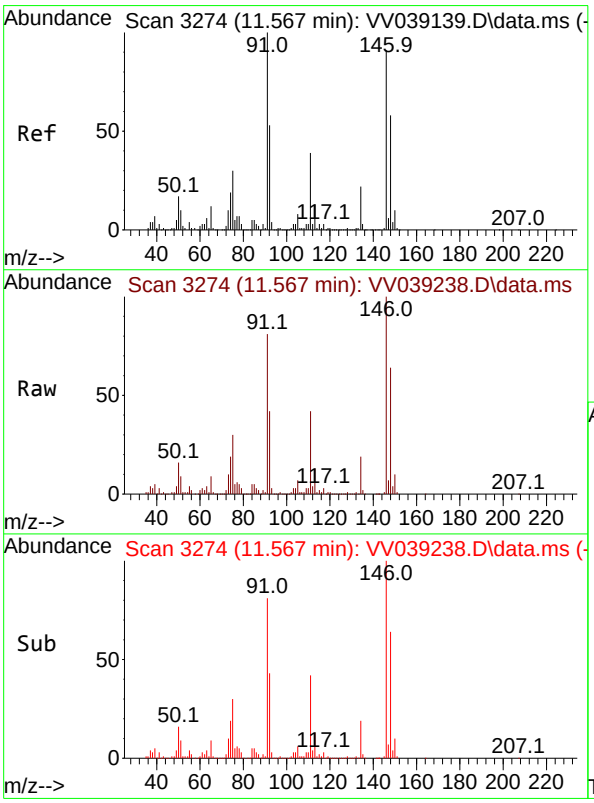
#90
Hexachloroethane
Concen: 40.507 ug/l
RT: 11.821 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:117 Resp: 329035

Ion	Ratio	Lower	Upper
117	100		
201	67.4	32.3	96.8

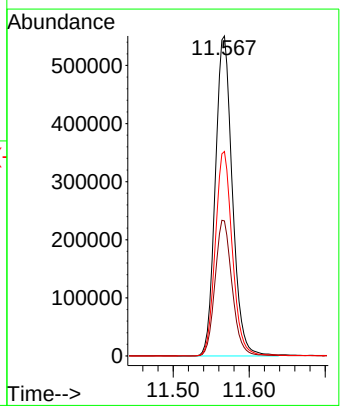


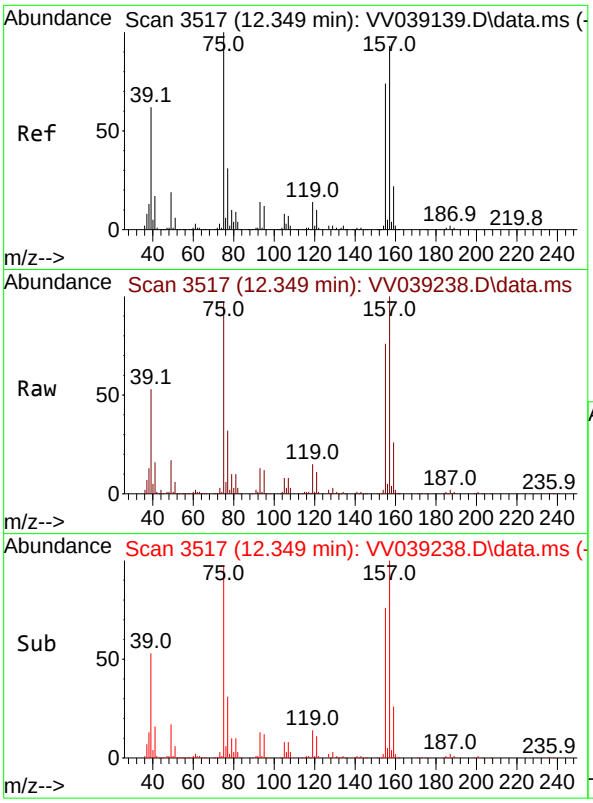


#91
1,2-Dichlorobenzene
Concen: 48.321 ug/l
RT: 11.567 min Scan# 3274
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:146 Resp: 854599

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.5	64.5
148	64.2	31.9	95.7



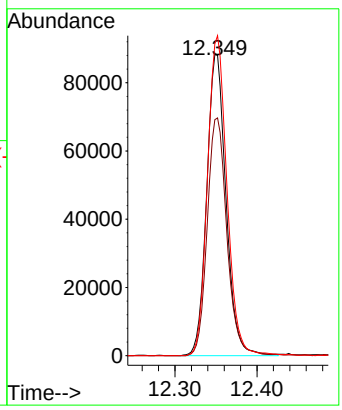


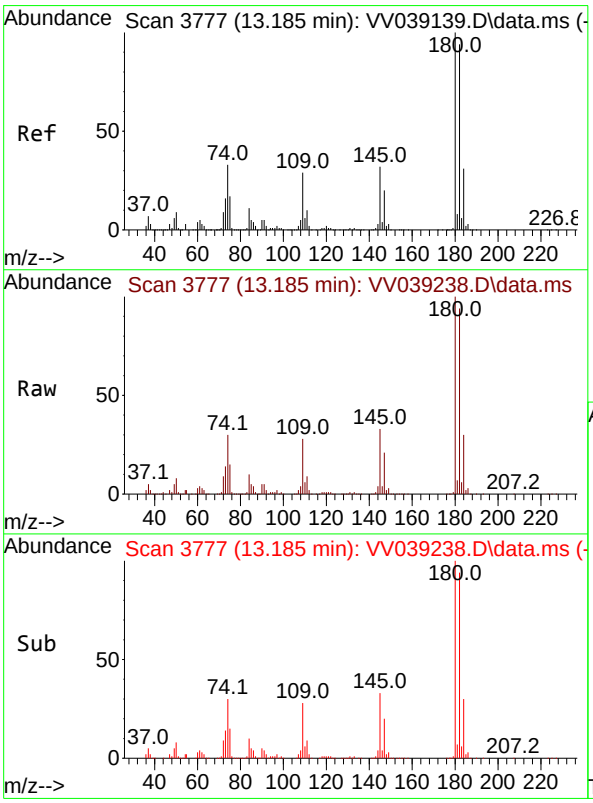
#92
1,2-Dibromo-3-Chloropropane
Concen: 50.939 ug/l
RT: 12.349 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion: 75 Resp: 144885

Ion	Ratio	Lower	Upper
75	100		
155	80.1	38.6	115.8
157	107.2	49.5	148.3

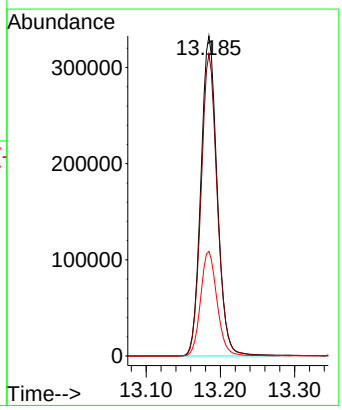


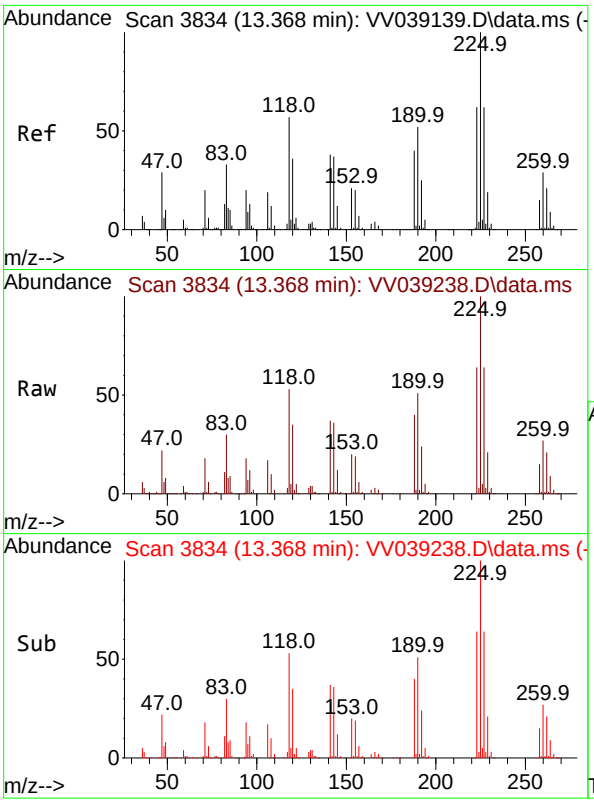


#93
1,2,4-Trichlorobenzene
Concen: 50.049 ug/l
RT: 13.185 min Scan# 3777
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:180 Resp: 507400

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.1	141.4
145	33.0	16.3	48.8



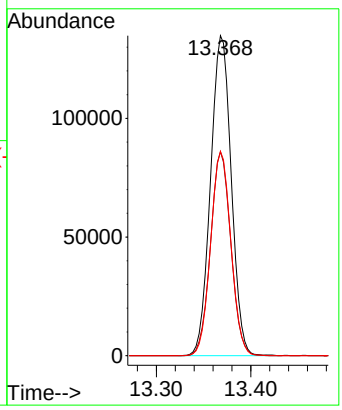


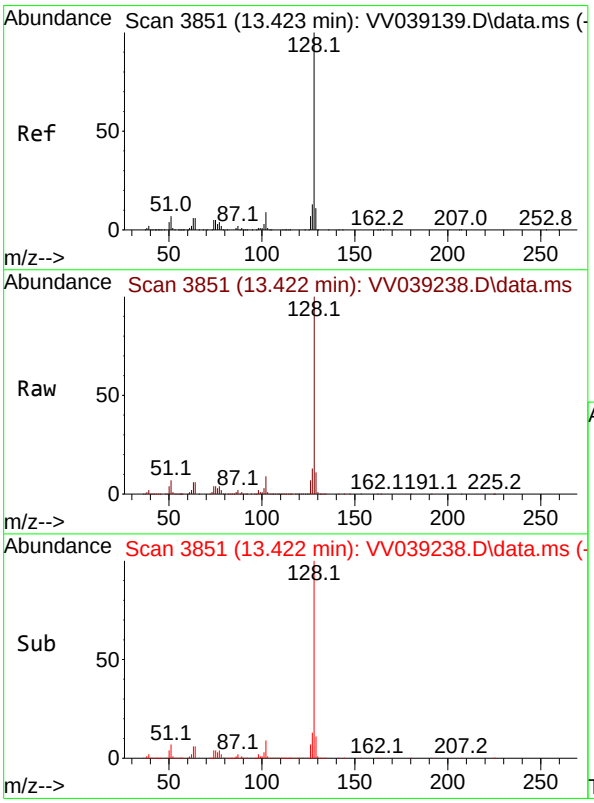
#94
Hexachlorobutadiene
Concen: 38.945 ug/l
RT: 13.368 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:225 Resp: 205155

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.6	94.7
227	62.4	31.8	95.4

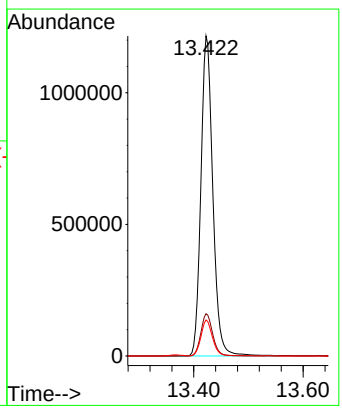


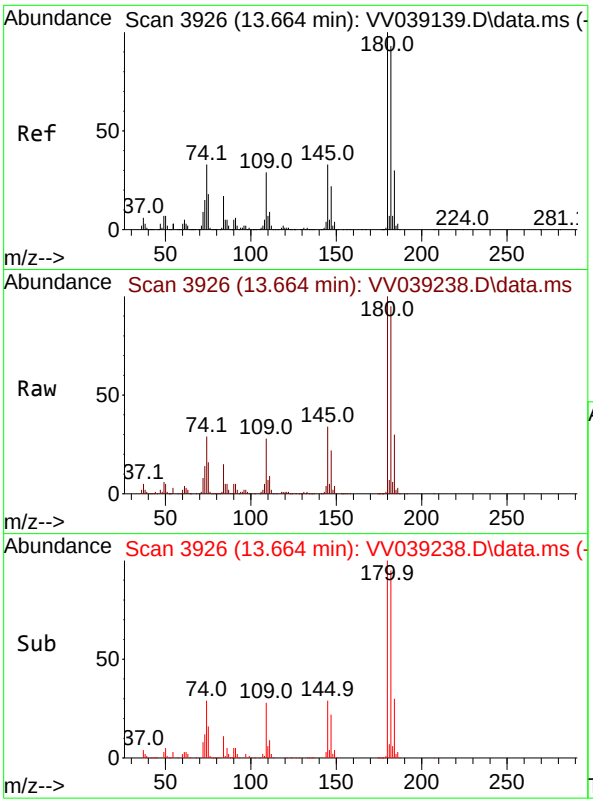


#95
Naphthalene
Concen: 56.086 ug/l
RT: 13.422 min Scan# 3851
Delta R.T. -0.001 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:128 Resp: 1837825

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	10.8	8.6	13.0



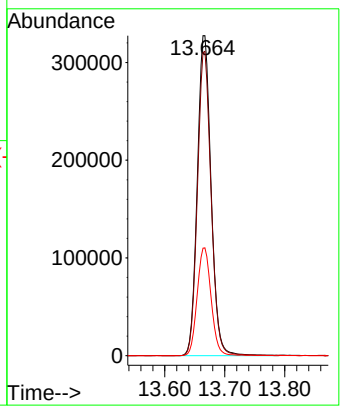


#96
1,2,3-Trichlorobenzene
Concen: 50.663 ug/l
RT: 13.664 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Instrument :
MSVOA_V
ClientSampleId :
MW-33D-091725MSD

Tgt Ion:180 Resp: 525316

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.9	140.8
145	34.0	17.0	51.0



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

Manual Integration Report

Sequence:	VV092225	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VV039142.D	1,2,3-Trichloropropane	MMDadoda	9/26/2025 1:38:50 AM	SAM	9/26/2025 1:57:11 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,1-Dichloropropene	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,4-Dichlorobenzene	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,4-Dioxane	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	2,2-Dichloropropane	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	2-Butanone	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Carbon Tetrachloride	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Ethyl Acetate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Ethyl methacrylate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Isopropyl Acetate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Methacrylonitrile	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Methyl methacrylate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Naphthalene	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VV092225	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VV039144.D	1,2,3-Trichloropropane	MMDadoda	9/26/2025 1:38:55 AM	SAM	9/26/2025 1:57:15 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VV092525	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VV092625	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3195-06	VV039209.D	cis-1,2-Dichloroethene	MMDadoda	9/29/2025 7:36:31 AM	SAM	9/29/2025 7:38:38 AM	Peak Integrated by Software
Q3195-15	VV039214.D	1,4-Dioxane	mmdadoda	10/28/2025 2:07:24 AM	mohammad	10/28/2025 2:20:10 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VV092925	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3195-18	VV039227.D	Trichloroethene	MMDadoda	10/3/2025 2:25:02 AM	SAM	10/3/2025 2:34:47 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092225

Review By	Mahesh Dadoda	Review On	9/26/2025 1:39:32 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	9/26/2025 1:56:56 AM				
SubDirectory	VV092225	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135580
Initial Calibration Stds	VP135581,VP135582,VP135583,VP135584,VP135585,VP135586
CCC	
Internal Standard/PEM	VP133935
ICV/I.BLK	VP135587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039134.D	22 Sep 2025 10:15	SY/MD	Ok
2	VSTDICC001	VV039135.D	22 Sep 2025 10:59	SY/MD	Not Ok
3	VSTDICC005	VV039136.D	22 Sep 2025 11:30	SY/MD	Not Ok
4	VSTDICC010	VV039137.D	22 Sep 2025 12:26	SY/MD	Ok
5	VSTDICC020	VV039138.D	22 Sep 2025 12:48	SY/MD	Ok
6	VSTDICCC050	VV039139.D	22 Sep 2025 13:26	SY/MD	Ok
7	VSTDICC100	VV039140.D	22 Sep 2025 13:49	SY/MD	Ok
8	VIBLK	VV039141.D	22 Sep 2025 14:21	SY/MD	Ok
9	VSTDICC005	VV039142.D	22 Sep 2025 15:37	SY/MD	Ok,M
10	VSTDICC001	VV039143.D	22 Sep 2025 16:35	SY/MD	Ok,M
11	VSTDICV050	VV039144.D	22 Sep 2025 16:58	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

Review By	Mahesh Dadoda	Review On	9/29/2025 12:56:22 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/29/2025 1:08:36 AM		
SubDirectory	VV092525	HP Acquire Method	8260_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135649
Initial Calibration Stds	
CCC	VP135650,VP135651
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039167.D	25 Sep 2025 09:14	SY/MD	Ok
2	VSTDCCC050	VV039168.D	25 Sep 2025 09:59	SY/MD	Ok
3	VV0925MBL01	VV039169.D	25 Sep 2025 10:31	SY/MD	Ok
4	VV0925WBL01	VV039170.D	25 Sep 2025 11:01	SY/MD	Ok
5	VV0925WBS01	VV039171.D	25 Sep 2025 11:24	SY/MD	Ok
6	VV0925WBSD01	VV039172.D	25 Sep 2025 11:48	SY/MD	Ok
7	Q3164-02	VV039173.D	25 Sep 2025 12:10	SY/MD	Ok
8	Q3175-01DL	VV039174.D	25 Sep 2025 12:33	SY/MD	Dilution
9	Q3175-02DL	VV039175.D	25 Sep 2025 12:55	SY/MD	Ok,M
10	VIBLK	VV039176.D	25 Sep 2025 13:18	SY/MD	Ok,M
11	Q3168-05	VV039177.D	25 Sep 2025 13:40	SY/MD	ReRun
12	Q3168-06	VV039178.D	25 Sep 2025 14:03	SY/MD	ReRun
13	Q3175-01DL2	VV039179.D	25 Sep 2025 14:25	SY/MD	Ok,M
14	Q3172-02DL	VV039180.D	25 Sep 2025 14:48	SY/MD	Ok
15	VIBLK	VV039181.D	25 Sep 2025 15:10	SY/MD	Ok
16	Q3172-01DL	VV039182.D	25 Sep 2025 15:33	SY/MD	Ok
17	Q3168-05RE	VV039183.D	25 Sep 2025 15:55	SY/MD	Confirms
18	Q3168-06RE	VV039184.D	25 Sep 2025 16:18	SY/MD	Confirms
19	Q3172-03	VV039185.D	25 Sep 2025 16:40	SY/MD	Ok
20	Q3195-22	VV039186.D	25 Sep 2025 17:03	SY/MD	Ok
21	Q3195-23	VV039187.D	25 Sep 2025 17:25	SY/MD	Ok

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

Review By	Mahesh Dadoda	Review On	9/29/2025 12:56:22 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/29/2025 1:08:36 AM		
SubDirectory	VV092525	HP Acquire Method	8260_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135649
Initial Calibration Stds	
CCC	VP135650,VP135651
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3195-24	VV039188.D	25 Sep 2025 17:47	SY/MD	ReRun
23	Q3195-25	VV039189.D	25 Sep 2025 18:10	SY/MD	Ok
24	Q3195-26	VV039190.D	25 Sep 2025 18:32	SY/MD	Ok
25	Q3195-27	VV039191.D	25 Sep 2025 18:55	SY/MD	Ok
26	Q3195-02	VV039192.D	25 Sep 2025 19:17	SY/MD	Ok
27	Q3195-09	VV039193.D	25 Sep 2025 19:40	SY/MD	Ok
28	Q3195-10	VV039194.D	25 Sep 2025 20:02	SY/MD	Ok
29	Q3195-11	VV039195.D	25 Sep 2025 20:25	SY/MD	Ok
30	VSTDCCC050	VV039196.D	25 Sep 2025 20:47	SY/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

Review By	Mahesh Dadoda	Review On	9/29/2025 7:35:37 AM				
Supervise By	mohammad ahmed	Supervise On	10/28/2025 2:13:37 AM				
SubDirectory	VV092625	HP Acquire Method	MSVOA_V		HP Processing Method	82v09225w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP135673
Initial Calibration Stds	
CCC	VP135680,VP135681
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039197.D	26 Sep 2025 08:14	SY/MD	Ok
2	VSTDCCC050	VV039198.D	26 Sep 2025 09:20	SY/MD	Ok
3	VV0926MBL01	VV039199.D	26 Sep 2025 10:00	SY/MD	Ok
4	VV0926WBL01	VV039200.D	26 Sep 2025 10:23	SY/MD	Ok
5	VV0926WBS01	VV039201.D	26 Sep 2025 10:49	SY/MD	Ok
6	VV0926WBSD01	VV039202.D	26 Sep 2025 11:13	SY/MD	Ok
7	Q3195-24	VV039203.D	26 Sep 2025 11:36	SY/MD	Ok
8	Q3195-12	VV039204.D	26 Sep 2025 11:58	SY/MD	Ok
9	Q3195-04	VV039205.D	26 Sep 2025 12:21	SY/MD	Ok
10	Q3195-01	VV039206.D	26 Sep 2025 12:43	SY/MD	Ok
11	Q3195-03	VV039207.D	26 Sep 2025 13:06	SY/MD	Ok
12	Q3195-05	VV039208.D	26 Sep 2025 13:28	SY/MD	Ok
13	Q3195-06	VV039209.D	26 Sep 2025 13:51	SY/MD	Ok,M
14	Q3195-07	VV039210.D	26 Sep 2025 14:13	SY/MD	ReRun
15	Q3195-08	VV039211.D	26 Sep 2025 14:36	SY/MD	Ok
16	Q3195-13	VV039212.D	26 Sep 2025 14:58	SY/MD	Ok
17	Q3195-14	VV039213.D	26 Sep 2025 15:20	SY/MD	Ok
18	Q3195-15	VV039214.D	26 Sep 2025 15:43	SY/MD	Dilution
19	Q3195-16	VV039215.D	26 Sep 2025 16:05	SY/MD	Dilution
20	Q3195-17	VV039216.D	26 Sep 2025 16:28	SY/MD	Dilution
21	Q3195-18	VV039217.D	26 Sep 2025 16:50	SY/MD	ReRun

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

Review By	Mahesh Dadoda	Review On	9/29/2025 7:35:37 AM				
Supervise By	mohammad ahmed	Supervise On	10/28/2025 2:13:37 AM				
SubDirectory	VV092625	HP Acquire Method	MSVOA_V	HP Processing Method	82v09225w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135673
Initial Calibration Stds	
CCC	VP135680,VP135681
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3195-19	VV039218.D	26 Sep 2025 17:13	SY/MD	Not Ok
23	VSTDCCC050	VV039219.D	26 Sep 2025 17:35	SY/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092925

Review By	Mahesh Dadoda	Review On	10/3/2025 2:25:04 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/3/2025 2:34:55 AM		
SubDirectory	VV092925	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135688
Initial Calibration Stds	
CCC	VP135689,VP135690
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039220.D	29 Sep 2025 09:48	SY/MD	Ok
2	VSTDCCC050	VV039221.D	29 Sep 2025 11:11	SY/MD	Ok
3	VV0929MBL01	VV039222.D	29 Sep 2025 11:38	SY/MD	Ok
4	VV0929WBL01	VV039223.D	29 Sep 2025 12:00	SY/MD	Ok
5	VV0929WBS01	VV039224.D	29 Sep 2025 12:23	SY/MD	Ok
6	VV0929WBSD01	VV039225.D	29 Sep 2025 12:45	SY/MD	Ok
7	Q3195-15DL	VV039226.D	29 Sep 2025 13:08	SY/MD	Ok
8	Q3195-18	VV039227.D	29 Sep 2025 13:31	SY/MD	Ok,M
9	Q3195-19	VV039228.D	29 Sep 2025 13:53	SY/MD	Ok
10	Q3195-07	VV039229.D	29 Sep 2025 14:16	SY/MD	Ok
11	Q3195-16DL	VV039230.D	29 Sep 2025 14:38	SY/MD	Ok
12	Q3195-17DL	VV039231.D	29 Sep 2025 15:01	SY/MD	Ok
13	PB169894TB	VV039232.D	29 Sep 2025 15:23	SY/MD	Ok
14	Q3231-04	VV039233.D	29 Sep 2025 15:45	SY/MD	ReRun
15	Q3231-08	VV039234.D	29 Sep 2025 16:08	SY/MD	Ok
16	Q3231-12	VV039235.D	29 Sep 2025 16:30	SY/MD	Ok
17	Q3231-16	VV039236.D	29 Sep 2025 16:53	SY/MD	Ok
18	Q3195-20MS	VV039237.D	29 Sep 2025 17:15	SY/MD	Ok
19	Q3195-21MSD	VV039238.D	29 Sep 2025 17:38	SY/MD	Ok
20	VIBLK	VV039239.D	29 Sep 2025 18:00	SY/MD	Ok
21	VSTDCCC050	VV039240.D	29 Sep 2025 18:23	SY/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092225

Review By	Mahesh Dadoda	Review On	9/26/2025 1:39:32 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/26/2025 1:56:56 AM		
SubDirectory	VV092225	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135580
Initial Calibration Stds	VP135581,VP135582,VP135583,VP135584,VP135585,VP135586
CCC	
Internal Standard/PEM	VP133935
ICV/I.BLK	VP135587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039134.D	22 Sep 2025 10:15		SY/MD	Ok
2	VSTDICC001	VSTDICC001	VV039135.D	22 Sep 2025 10:59	Not use	SY/MD	Not Ok
3	VSTDICC005	VSTDICC005	VV039136.D	22 Sep 2025 11:30	Not use	SY/MD	Not Ok
4	VSTDICC010	VSTDICC010	VV039137.D	22 Sep 2025 12:26		SY/MD	Ok
5	VSTDICC020	VSTDICC020	VV039138.D	22 Sep 2025 12:48	QR- 06,16,20,70,92	SY/MD	Ok
6	VSTDICCC050	VSTDICCC050	VV039139.D	22 Sep 2025 13:26	LR- 41,58,59	SY/MD	Ok
7	VSTDICC100	VSTDICC100	VV039140.D	22 Sep 2025 13:49		SY/MD	Ok
8	VIBLK	VIBLK	VV039141.D	22 Sep 2025 14:21		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VV039142.D	22 Sep 2025 15:37		SY/MD	Ok,M
10	VSTDICC001	VSTDICC001	VV039143.D	22 Sep 2025 16:35		SY/MD	Ok,M
11	VSTDICV050	ICVVV092225	VV039144.D	22 Sep 2025 16:58	Goof for Non-DOD	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

Review By	Mahesh Dadoda	Review On	9/29/2025 12:56:22 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/29/2025 1:08:36 AM		
SubDirectory	VV092525	HP Acquire Method	8260_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135649
Initial Calibration Stds	
CCC	VP135650,VP135651
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039167.D	25 Sep 2025 09:14		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VV039168.D	25 Sep 2025 09:59	pH#lot#v14222	SY/MD	Ok
3	VV0925MBL01	VV0925MBL01	VV039169.D	25 Sep 2025 10:31		SY/MD	Ok
4	VV0925WBL01	VV0925WBL01	VV039170.D	25 Sep 2025 11:01		SY/MD	Ok
5	VV0925WBS01	VV0925WBS01	VV039171.D	25 Sep 2025 11:24		SY/MD	Ok
6	VV0925WBSD01	VV0925WBSD01	VV039172.D	25 Sep 2025 11:48		SY/MD	Ok
7	Q3164-02	DA-2	VV039173.D	25 Sep 2025 12:10	pH<2.0 B	SY/MD	Ok
8	Q3175-01DL	MW2DL	VV039174.D	25 Sep 2025 12:33	Need 100X	SY/MD	Dilution
9	Q3175-02DL	MW4DL	VV039175.D	25 Sep 2025 12:55		SY/MD	Ok,M
10	VIBLK	VIBLK	VV039176.D	25 Sep 2025 13:18		SY/MD	Ok,M
11	Q3168-05	TOTES COMP#1	VV039177.D	25 Sep 2025 13:40	pH<2.0 A, Surrogate fail	SY/MD	ReRun
12	Q3168-06	TOTES COMP#2	VV039178.D	25 Sep 2025 14:03	pH<2.0 A, Surrogate fail	SY/MD	ReRun
13	Q3175-01DL2	MW2DL2	VV039179.D	25 Sep 2025 14:25		SY/MD	Ok,M
14	Q3172-02DL	FW6DDL	VV039180.D	25 Sep 2025 14:48		SY/MD	Ok
15	VIBLK	VIBLK	VV039181.D	25 Sep 2025 15:10		SY/MD	Ok
16	Q3172-01DL	FW7DDL	VV039182.D	25 Sep 2025 15:33	Surrogate fail	SY/MD	Ok
17	Q3168-05RE	TOTES COMP#1RE	VV039183.D	25 Sep 2025 15:55	pH<2.0 B,Surrogate fail	SY/MD	Confirms
18	Q3168-06RE	TOTES COMP#2RE	VV039184.D	25 Sep 2025 16:18	pH<2.0 B,Surrogate fail	SY/MD	Confirms

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

Review By	Mahesh Dadoda	Review On	9/29/2025 12:56:22 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/29/2025 1:08:36 AM		
SubDirectory	VV092525	HP Acquire Method	8260_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135649
Initial Calibration Stds	
CCC	VP135650,VP135651
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3172-03	GB3W	VV039185.D	25 Sep 2025 16:40	pH<2.0 A	SY/MD	Ok
20	Q3195-22	RW-1-092425	VV039186.D	25 Sep 2025 17:03	pH<2.0 A	SY/MD	Ok
21	Q3195-23	EB-01-091925	VV039187.D	25 Sep 2025 17:25	pH<2.0 A ,EB	SY/MD	Ok
22	Q3195-24	EB-02-092225	VV039188.D	25 Sep 2025 17:47	pH<2.0 A ,Internal Standard Fail	SY/MD	ReRun
23	Q3195-25	FB-01-091925	VV039189.D	25 Sep 2025 18:10	pH<2.0 A ,FB	SY/MD	Ok
24	Q3195-26	FB-02-092225	VV039190.D	25 Sep 2025 18:32	pH<2.0 A FB	SY/MD	Ok
25	Q3195-27	TB-01-091525	VV039191.D	25 Sep 2025 18:55	pH<2.0 A,TB	SY/MD	Ok
26	Q3195-02	MW-1-091725	VV039192.D	25 Sep 2025 19:17	pH<2.0 A	SY/MD	Ok
27	Q3195-09	MW-22-091825	VV039193.D	25 Sep 2025 19:40	pH<2.0 A	SY/MD	Ok
28	Q3195-10	MW-23-092325	VV039194.D	25 Sep 2025 20:02	pH<2.0 A	SY/MD	Ok
29	Q3195-11	MW-24-091925	VV039195.D	25 Sep 2025 20:25	pH<2.0 A	SY/MD	Ok
30	VSTDCCC050	VSTDCCC050EC	VV039196.D	25 Sep 2025 20:47		SY/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

Review By	Mahesh Dadoda	Review On	9/29/2025 7:35:37 AM		
Supervise By	mohammad ahmed	Supervise On	10/28/2025 2:13:37 AM		
SubDirectory	VV092625	HP Acquire Method	MSVOA_V	HP Processing Method	82v09225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135673
Initial Calibration Stds	
CCC	VP135680,VP135681
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039197.D	26 Sep 2025 08:14		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VV039198.D	26 Sep 2025 09:20	pH#lot#v14222	SY/MD	Ok
3	VV0926MBL01	VV0926MBL01	VV039199.D	26 Sep 2025 10:00		SY/MD	Ok
4	VV0926WBL01	VV0926WBL01	VV039200.D	26 Sep 2025 10:23		SY/MD	Ok
5	VV0926WBS01	VV0926WBS01	VV039201.D	26 Sep 2025 10:49		SY/MD	Ok
6	VV0926WBSD01	VV0926WBSD01	VV039202.D	26 Sep 2025 11:13		SY/MD	Ok
7	Q3195-24	EB-02-092225	VV039203.D	26 Sep 2025 11:36	pH<2.0 B,EB	SY/MD	Ok
8	Q3195-12	MW-26-091925	VV039204.D	26 Sep 2025 11:58	pH<2.0 A	SY/MD	Ok
9	Q3195-04	MW-4-091625	VV039205.D	26 Sep 2025 12:21	pH<2.0 A	SY/MD	Ok
10	Q3195-01	MOS-18-092225	VV039206.D	26 Sep 2025 12:43	pH<2.0 A	SY/MD	Ok
11	Q3195-03	MW-3-091525	VV039207.D	26 Sep 2025 13:06	pH<2.0 A	SY/MD	Ok
12	Q3195-05	MW-6-091625	VV039208.D	26 Sep 2025 13:28	pH<2.0 A	SY/MD	Ok
13	Q3195-06	MW-19D-092225	VV039209.D	26 Sep 2025 13:51	pH<2.0 A	SY/MD	Ok,M
14	Q3195-07	MW-19M-092325	VV039210.D	26 Sep 2025 14:13	pH<2.0 A ,Surrogate Fail	SY/MD	ReRun
15	Q3195-08	MW-21M-091925	VV039211.D	26 Sep 2025 14:36	pH<2.0 A	SY/MD	Ok
16	Q3195-13	MW-26-091925-FD	VV039212.D	26 Sep 2025 14:58	pH<2.0 A	SY/MD	Ok
17	Q3195-14	MW-29-092325	VV039213.D	26 Sep 2025 15:20	pH<2.0 A	SY/MD	Ok
18	Q3195-15	MW-31S-091825	VV039214.D	26 Sep 2025 15:43	pH<2.0 A ,Need 5X	SY/MD	Dilution

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

Review By	Mahesh Dadoda	Review On	9/29/2025 7:35:37 AM		
Supervise By	mohammad ahmed	Supervise On	10/28/2025 2:13:37 AM		
SubDirectory	VV092625	HP Acquire Method	MSVOA_V	HP Processing Method	82v09225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135673
Initial Calibration Stds	
CCC	VP135680,VP135681
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3195-16	MW-31D-091825	VV039215.D	26 Sep 2025 16:05	pH<2.0 A ,Need 40X	SY/MD	Dilution
20	Q3195-17	MW-31D-091825-FD	VV039216.D	26 Sep 2025 16:28	pH<2.0 A ,Need 50X	SY/MD	Dilution
21	Q3195-18	MW-32S-091725	VV039217.D	26 Sep 2025 16:50	pH<2.0 A ,E flag of previous sample	SY/MD	ReRun
22	Q3195-19	MW-33D-091725	VV039218.D	26 Sep 2025 17:13	pH<2.0 A ,Surrogate Fail;Confirm concentration	SY/MD	Not Ok
23	VSTDCCC050	VSTDCCC050EC	VV039219.D	26 Sep 2025 17:35		SY/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092925

Review By	Mahesh Dadoda	Review On	10/3/2025 2:25:04 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/3/2025 2:34:55 AM		
SubDirectory	VV092925	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135688
Initial Calibration Stds	
CCC	VP135689,VP135690
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039220.D	29 Sep 2025 09:48		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VV039221.D	29 Sep 2025 11:11	pH#lot#v14222	SY/MD	Ok
3	VV0929MBL01	VV0929MBL01	VV039222.D	29 Sep 2025 11:38		SY/MD	Ok
4	VV0929WBL01	VV0929WBL01	VV039223.D	29 Sep 2025 12:00		SY/MD	Ok
5	VV0929WBS01	VV0929WBS01	VV039224.D	29 Sep 2025 12:23		SY/MD	Ok
6	VV0929WBSD01	VV0929WBSD01	VV039225.D	29 Sep 2025 12:45		SY/MD	Ok
7	Q3195-15DL	MW-31S-091825DL	VV039226.D	29 Sep 2025 13:08		SY/MD	Ok
8	Q3195-18	MW-32S-091725	VV039227.D	29 Sep 2025 13:31	pH<2.0 B	SY/MD	Ok,M
9	Q3195-19	MW-33D-091725	VV039228.D	29 Sep 2025 13:53	pH<2.0 B	SY/MD	Ok
10	Q3195-07	MW-19M-092325	VV039229.D	29 Sep 2025 14:16	pH<2.0 B	SY/MD	Ok
11	Q3195-16DL	MW-31D-091825DL	VV039230.D	29 Sep 2025 14:38		SY/MD	Ok
12	Q3195-17DL	MW-31D-091825-FDDL	VV039231.D	29 Sep 2025 15:01		SY/MD	Ok
13	PB169894TB	PB169894TB	VV039232.D	29 Sep 2025 15:23		SY/MD	Ok
14	Q3231-04	WC-1	VV039233.D	29 Sep 2025 15:45	pH<6.0 A Surrogate Fail	SY/MD	ReRun
15	Q3231-08	WC-2	VV039234.D	29 Sep 2025 16:08	pH<6.0 A	SY/MD	Ok
16	Q3231-12	WC-3	VV039235.D	29 Sep 2025 16:30	pH<6.0 A	SY/MD	Ok
17	Q3231-16	WC-4	VV039236.D	29 Sep 2025 16:53	pH<6.0 A	SY/MD	Ok
18	Q3195-20MS	MW-33D-091725MS	VV039237.D	29 Sep 2025 17:15	pH<6.0 B	SY/MD	Ok

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

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092925

Review By	Mahesh Dadoda	Review On	10/3/2025 2:25:04 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/3/2025 2:34:55 AM		
SubDirectory	VV092925	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135688
Initial Calibration Stds	
CCC	VP135689,VP135690
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3195-21MSD	MW-33D-091725MSD	VV039238.D	29 Sep 2025 17:38	pH<6.0 B	SY/MD	Ok
20	VIBLK	VIBLK	VV039239.D	29 Sep 2025 18:00		SY/MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VV039240.D	29 Sep 2025 18:23		SY/MD	Ok

M : Manual Integration

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

Prep Standard - Chemical Standard Summary

Order ID : Q3195

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VV092525,VV092625,VV092925,

Standard ID :
VP133935,VP133953,VP134142,VP134149,VP134933,VP135480,VP135552,VP135649,VP135650,VP135651,VP135673,VP135680,VP135681,VP135688,VP135689,VP135690,

Chemical ID :
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14921,V14928,V14929,V14951,V14952,V15066,V15067,V15068,W3112,

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/19/2025

FROM 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135649	09/25/2025	09/26/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135650	09/25/2025	09/26/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135651	09/25/2025	09/26/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135673	09/26/2025	09/27/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135680	09/26/2025	09/27/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135681	09/26/2025	09/27/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135688	09/29/2025	09/30/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135689	09/29/2025	09/30/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135690	09/29/2025	09/30/2025	Mahesh Dadoda	None	None	John Carlone 10/02/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty	5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

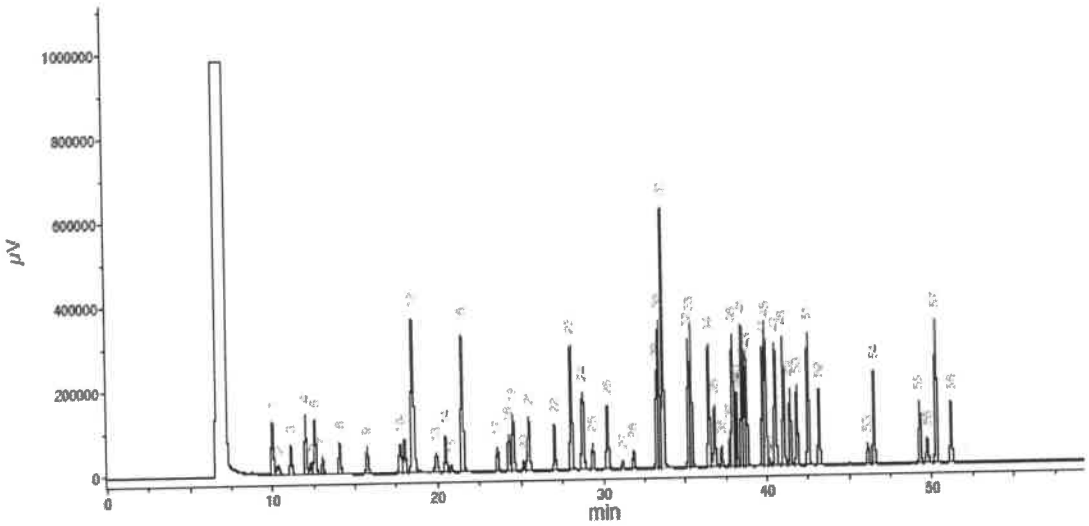
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.46
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624	DATE
Reviewed By:	Pedro L. Rentas	021624	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

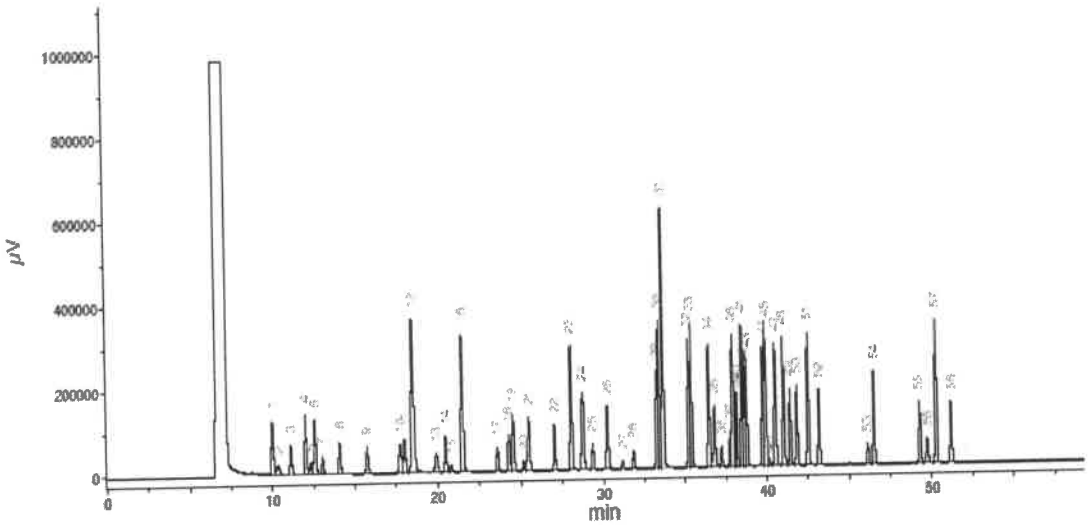
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: Vapours may form explosive mixture with air.
Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

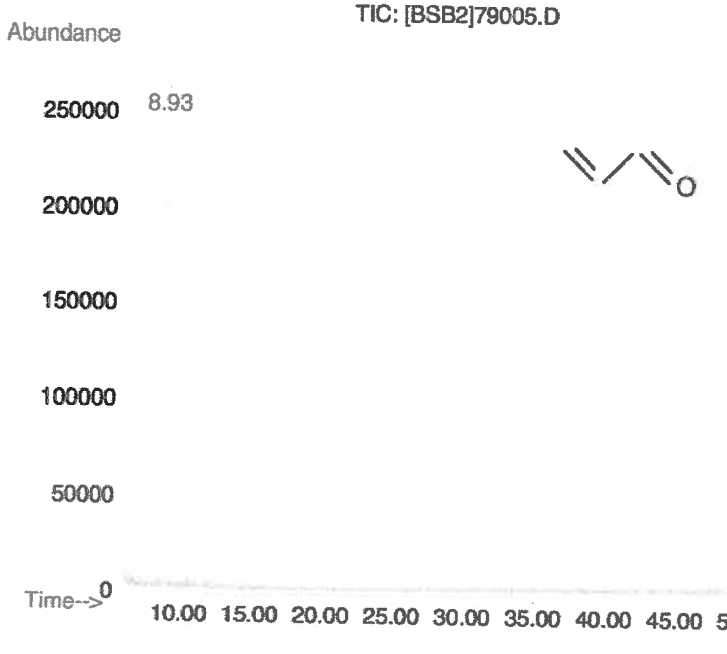
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

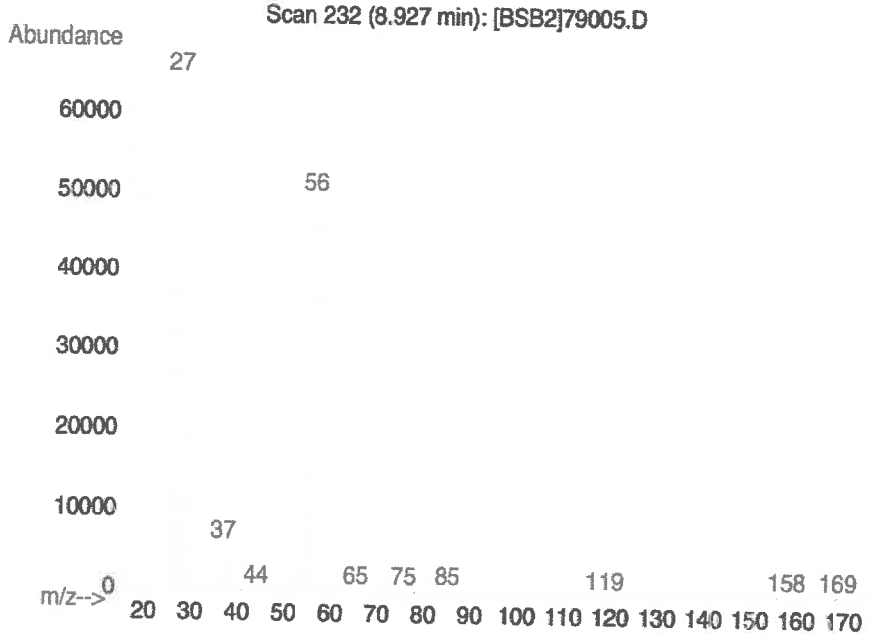
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Justin Dippold	091424 DATE
Reviewed By:	Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

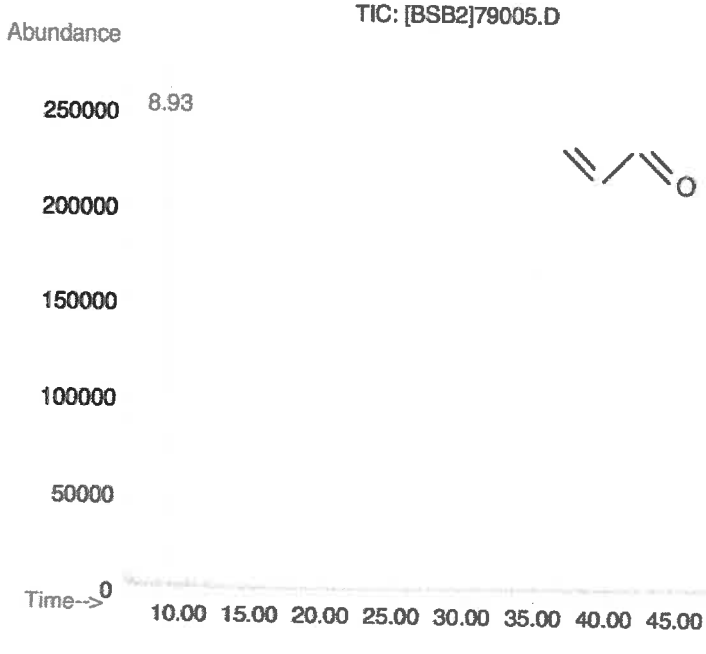
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

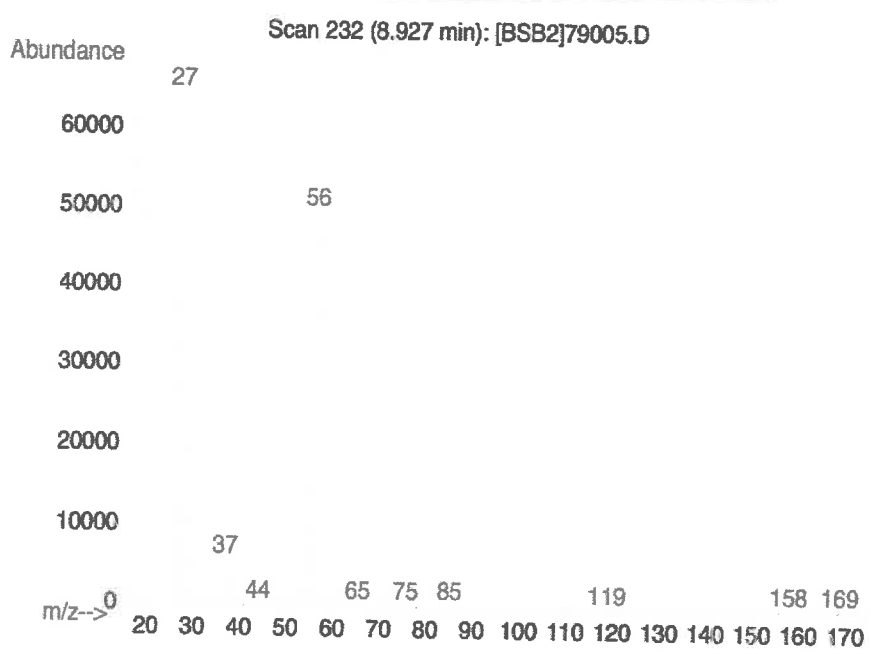
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

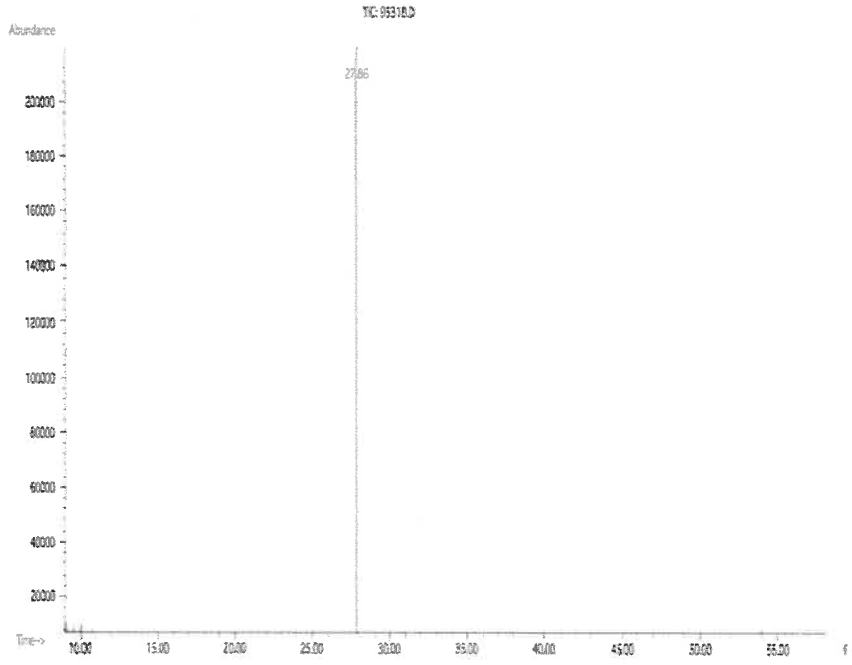
Solvent(s): Methanol **Lot#** EJ143-US

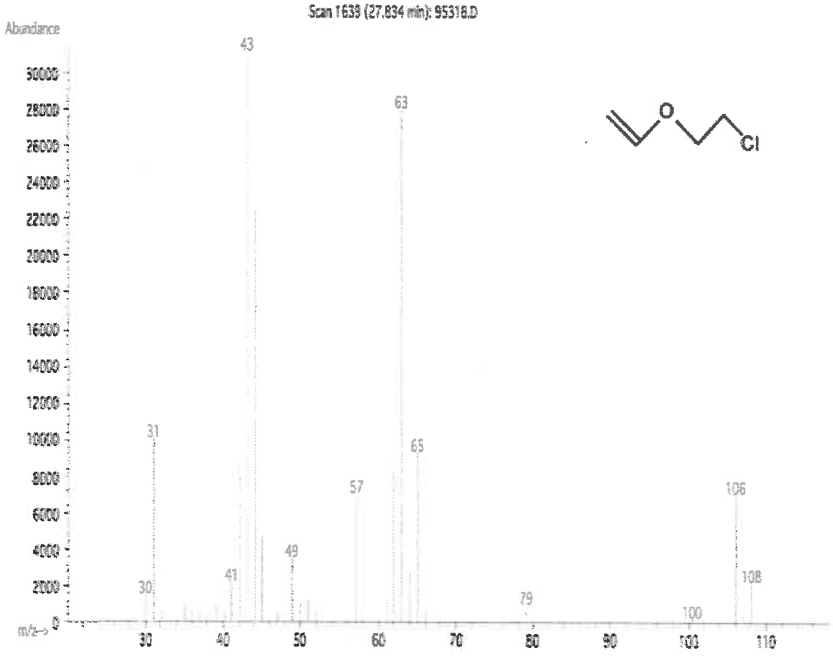
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

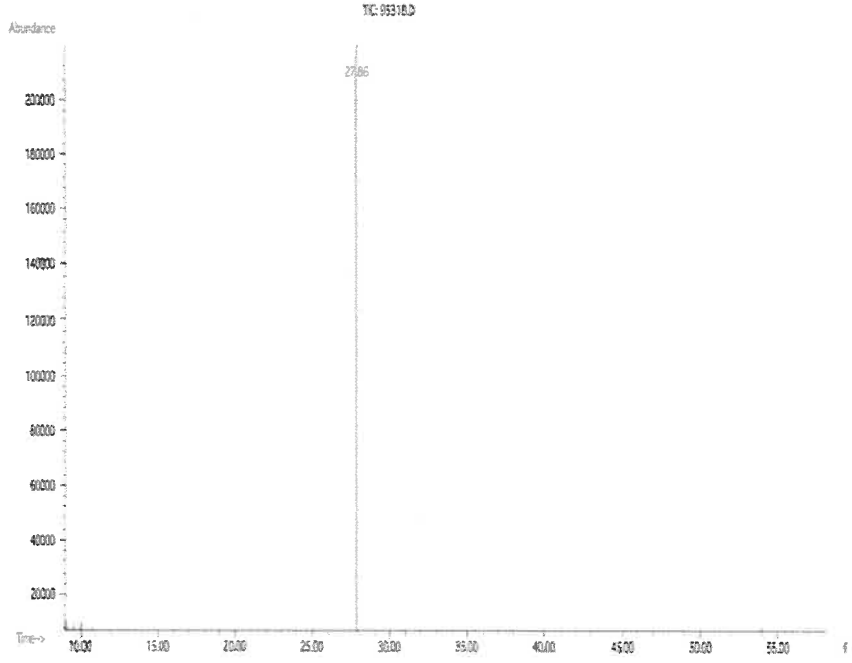
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

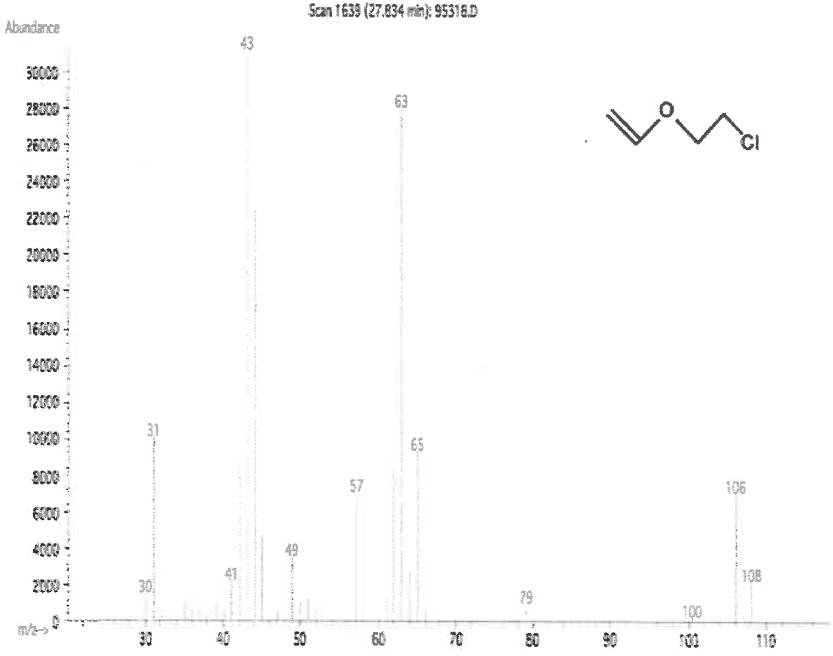
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

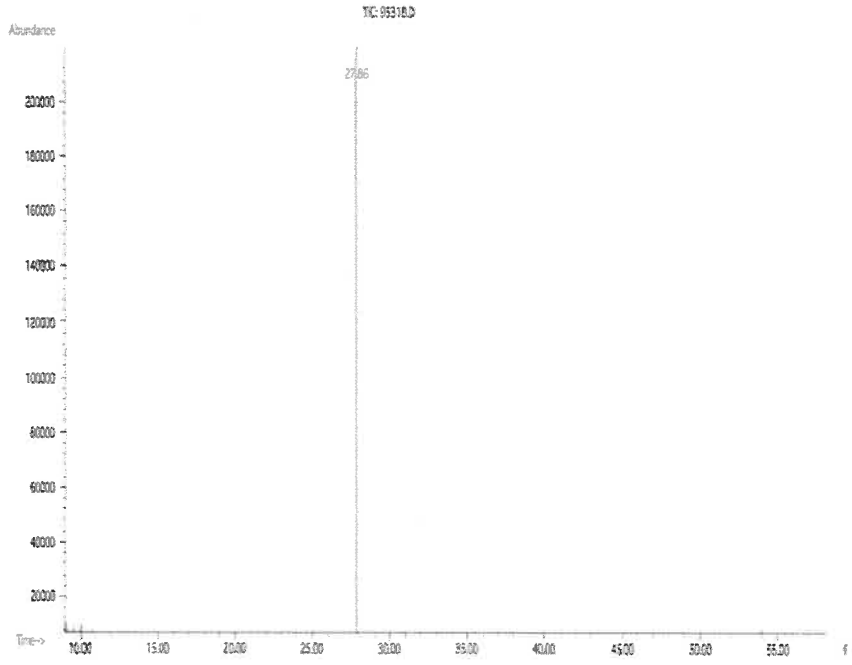
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

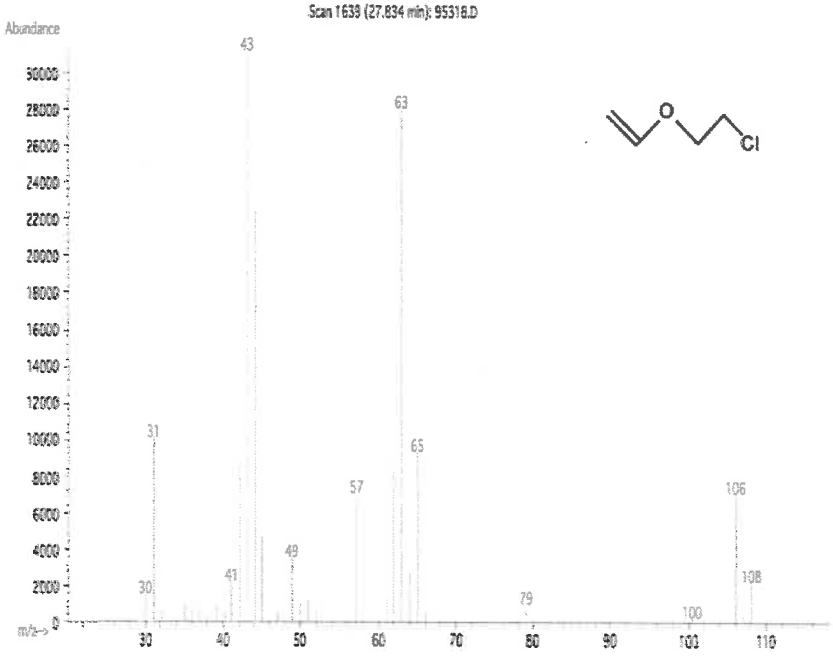
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

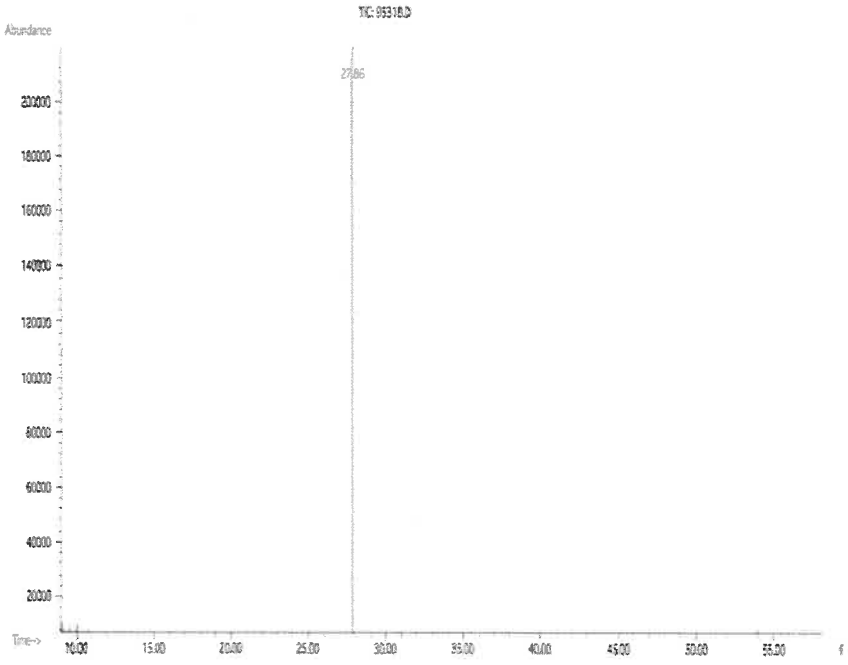
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

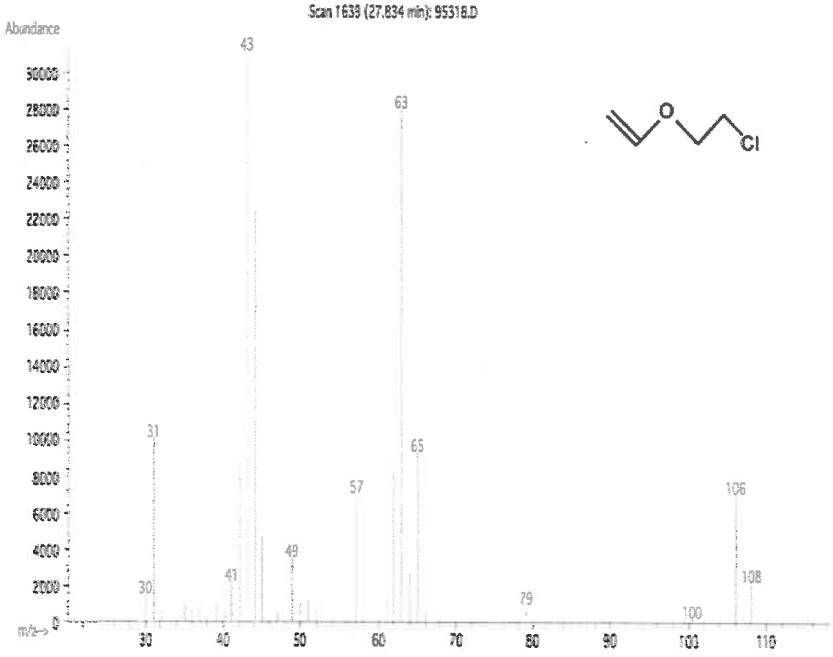
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

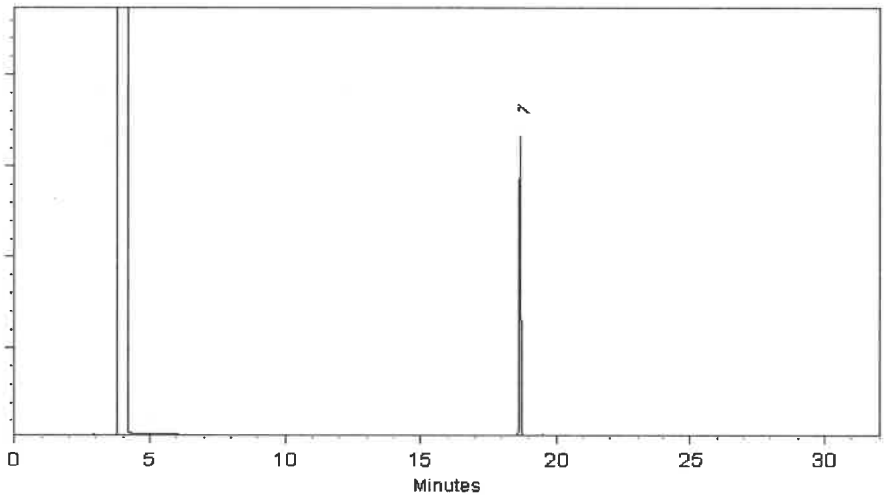
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I **Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

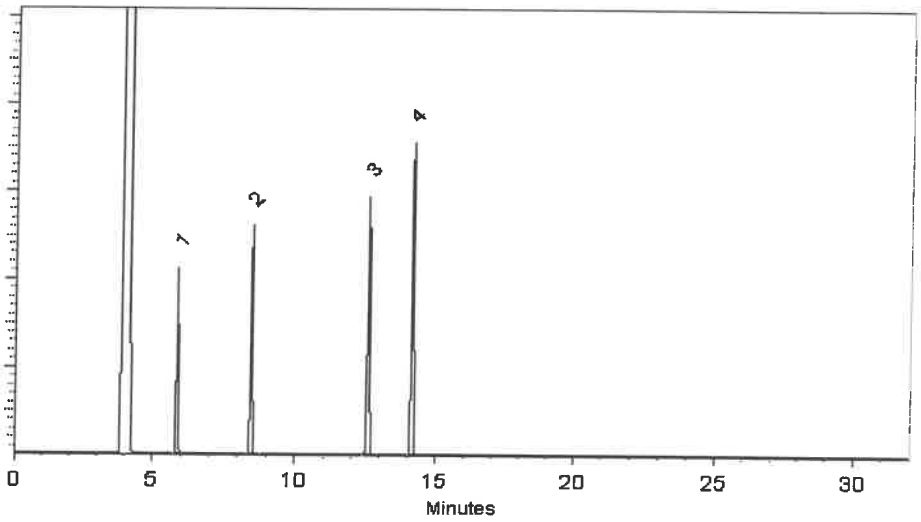
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

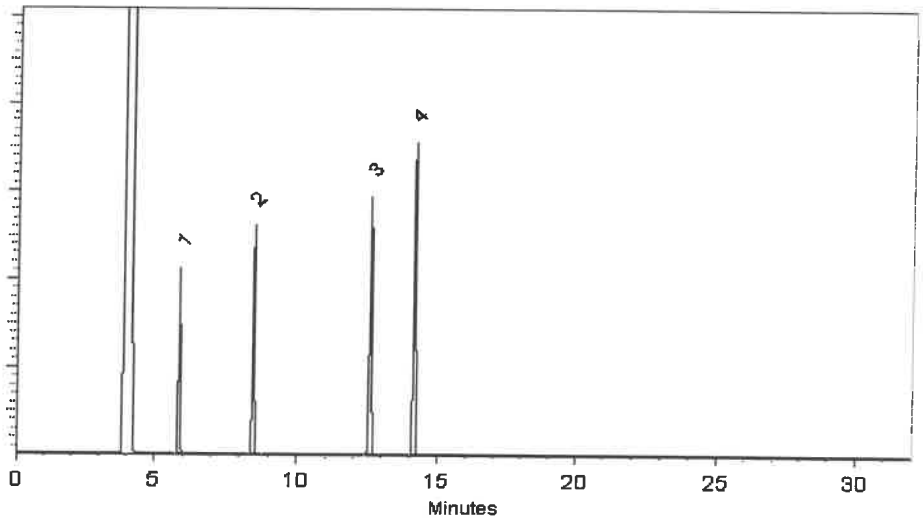
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

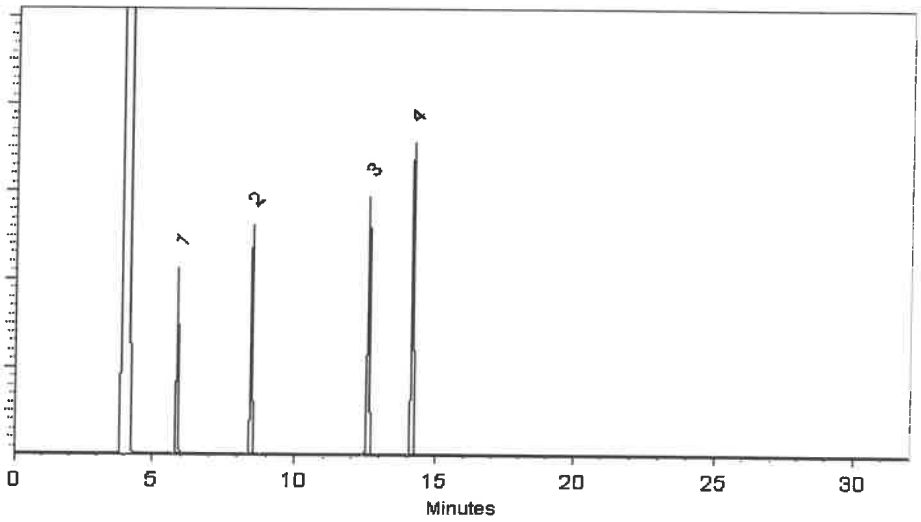
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

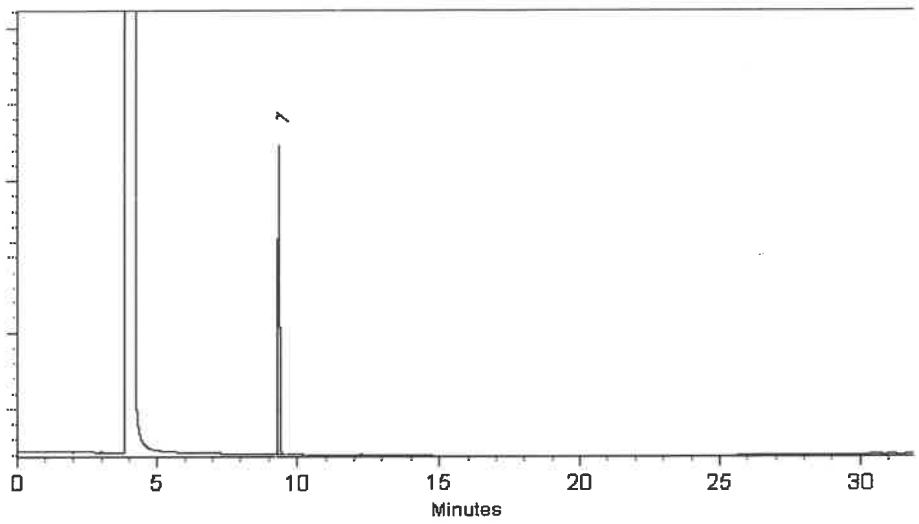
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I **Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

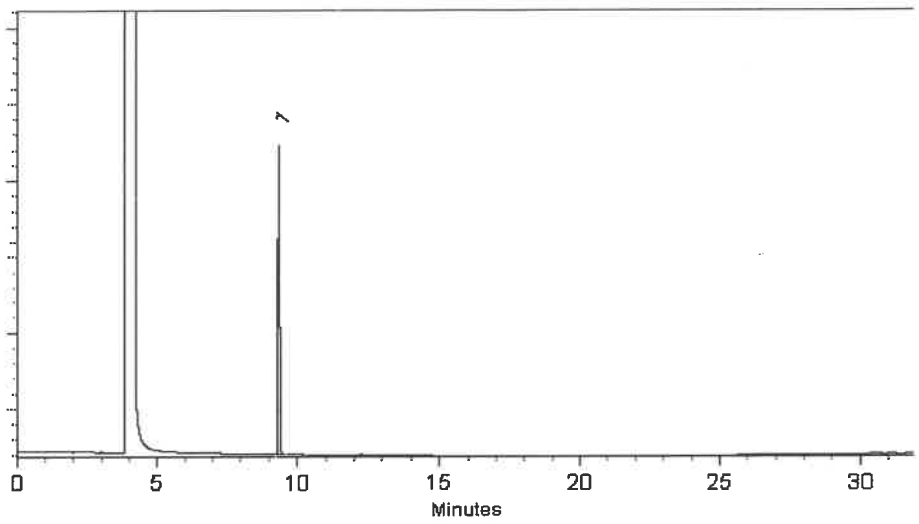
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

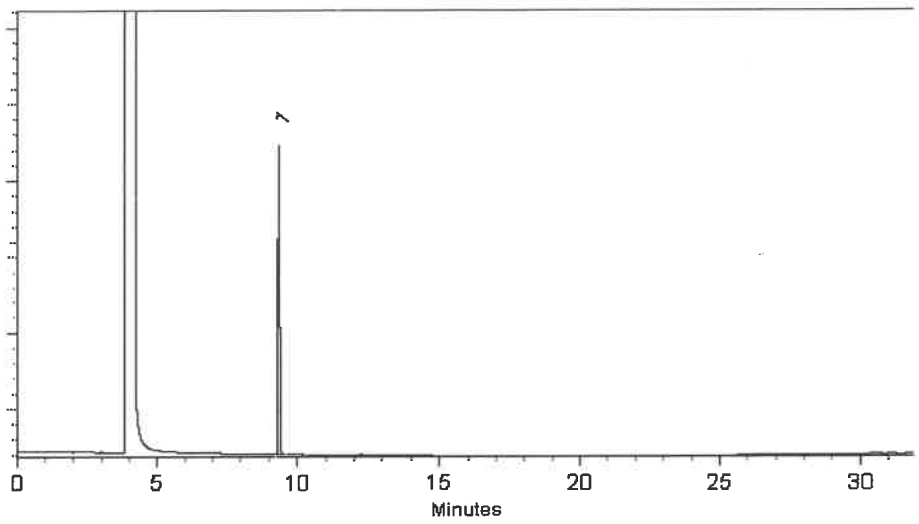
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

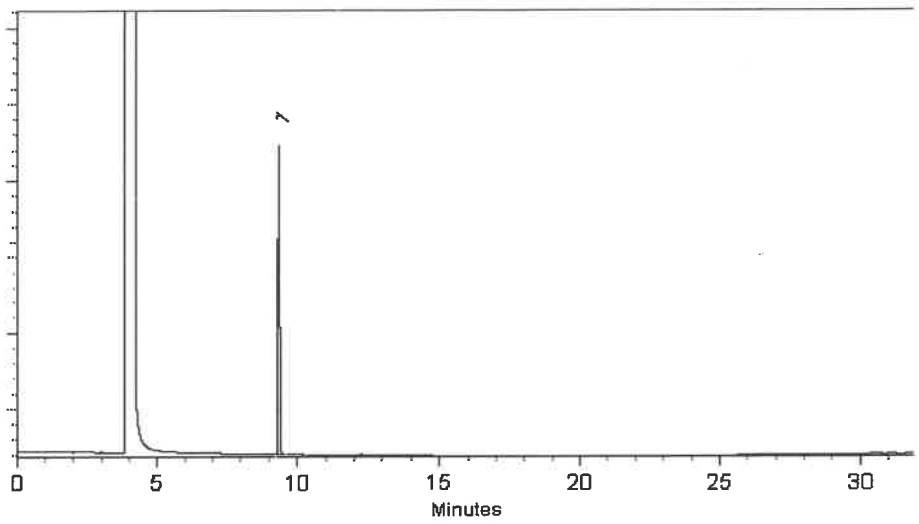
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I **Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

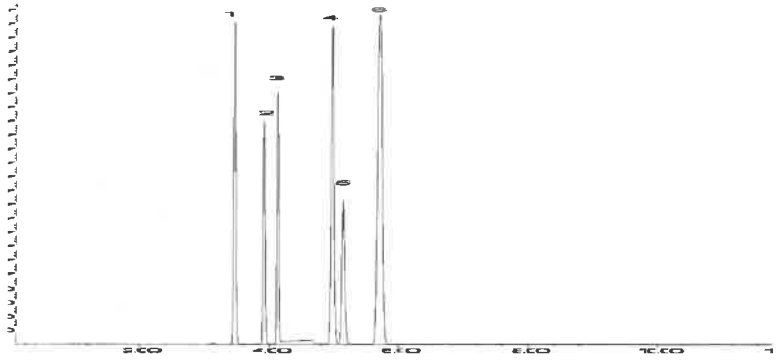
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

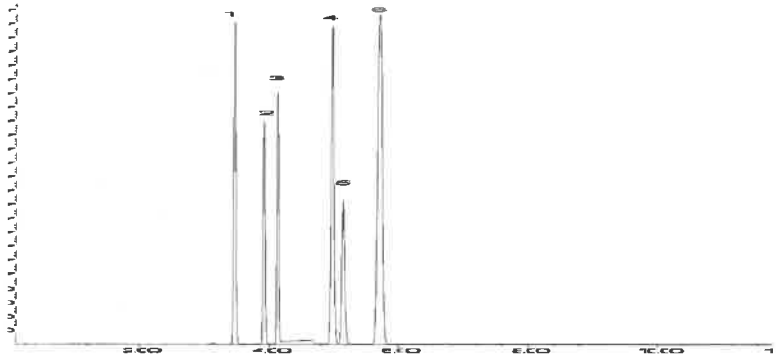
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

J14842 to 14846

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

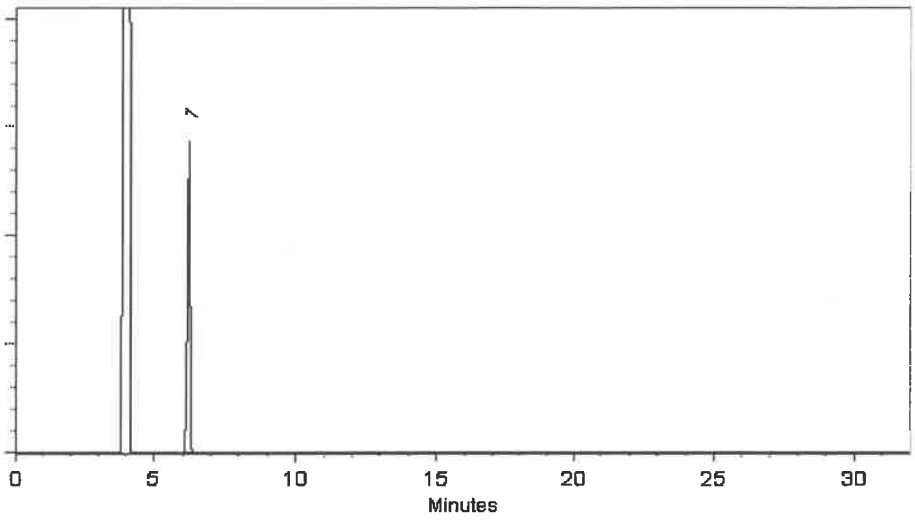
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoey Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

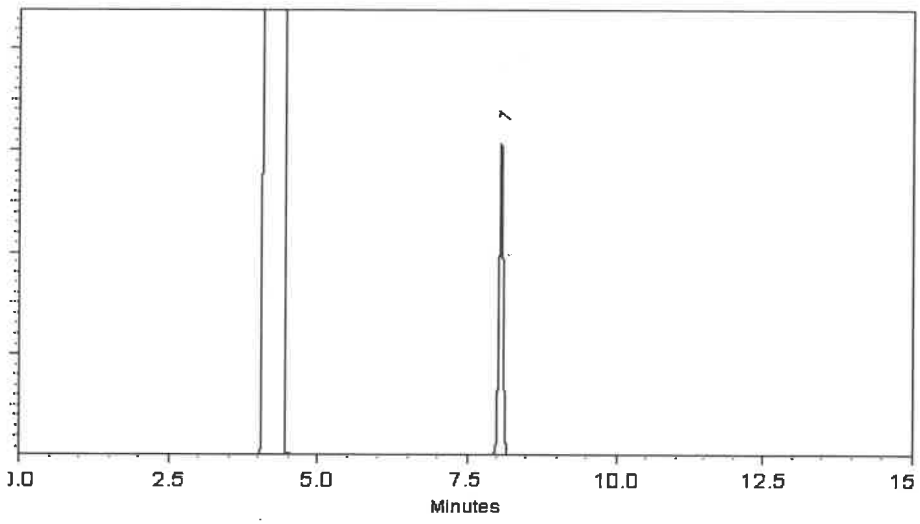
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zoey Rec 01/08/21

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

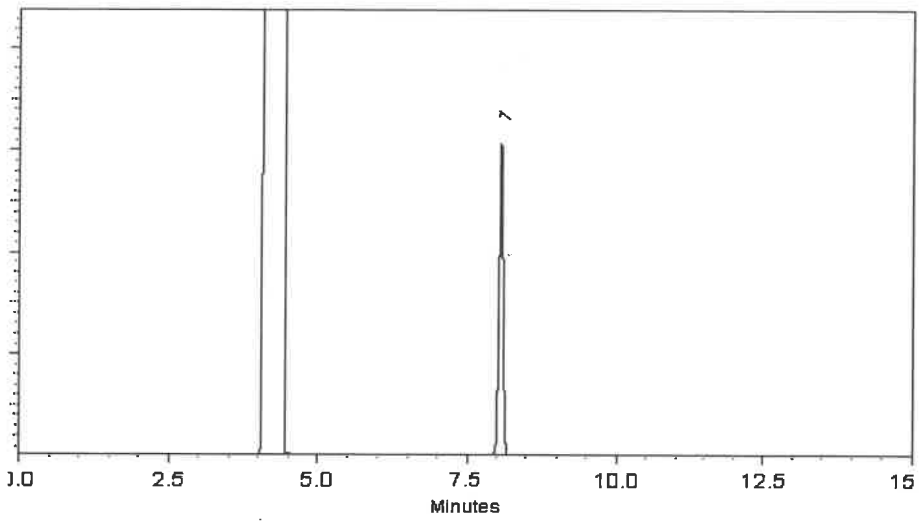
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial

CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Lee 05/19/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Lee 05/19/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

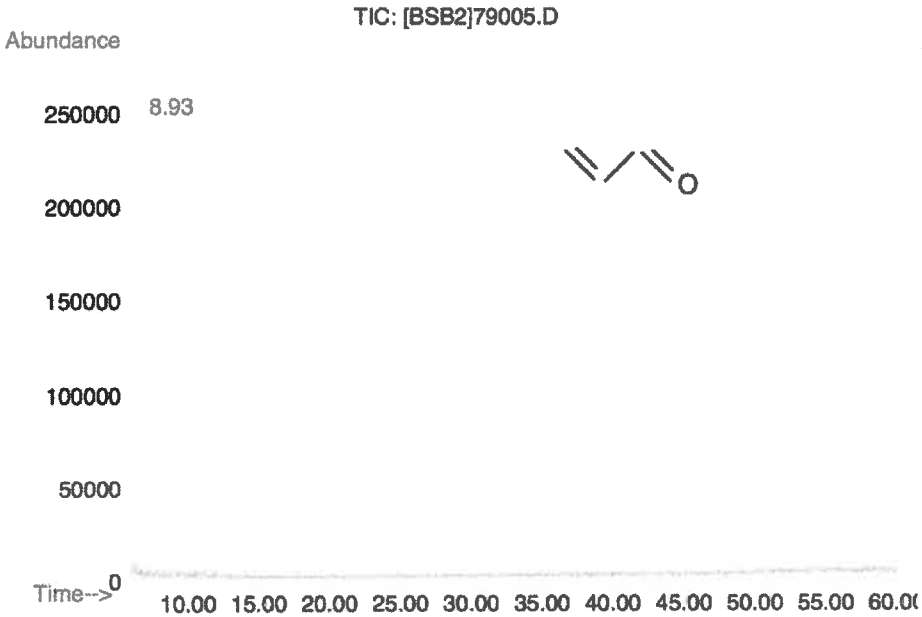
V15064 to V15068

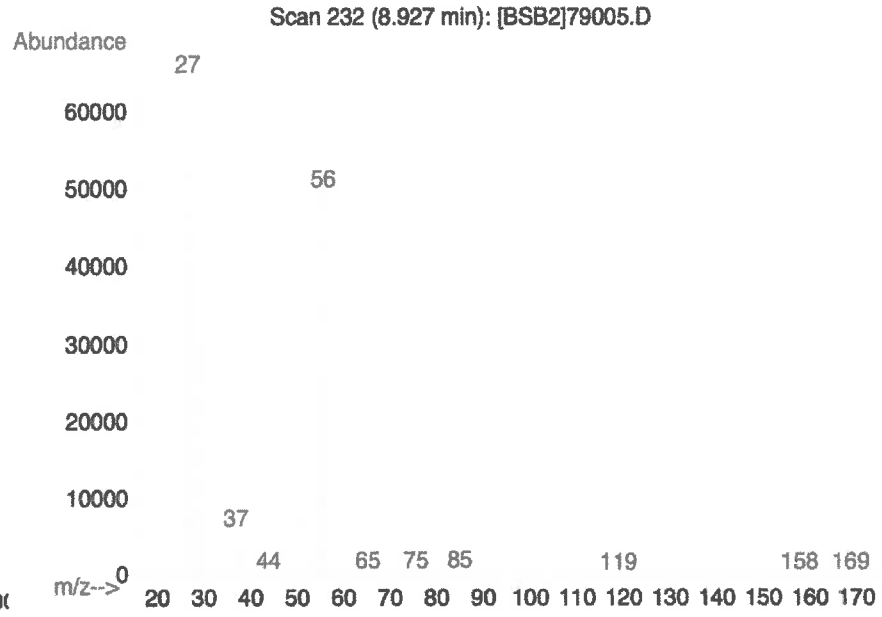
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	091525 DATE
Reviewed By:	Pedro L. Rentas	091525 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

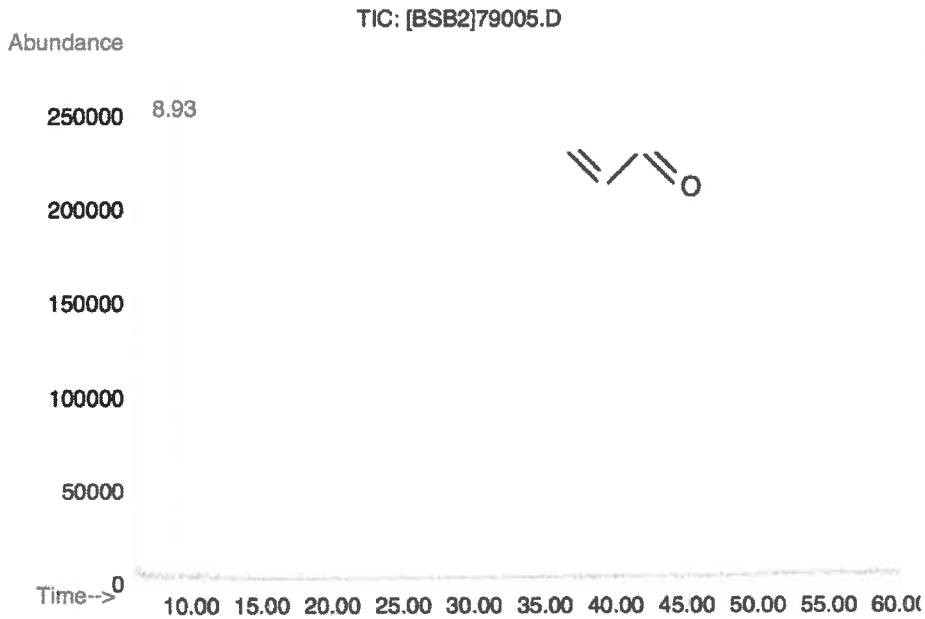
V15064 to V15068

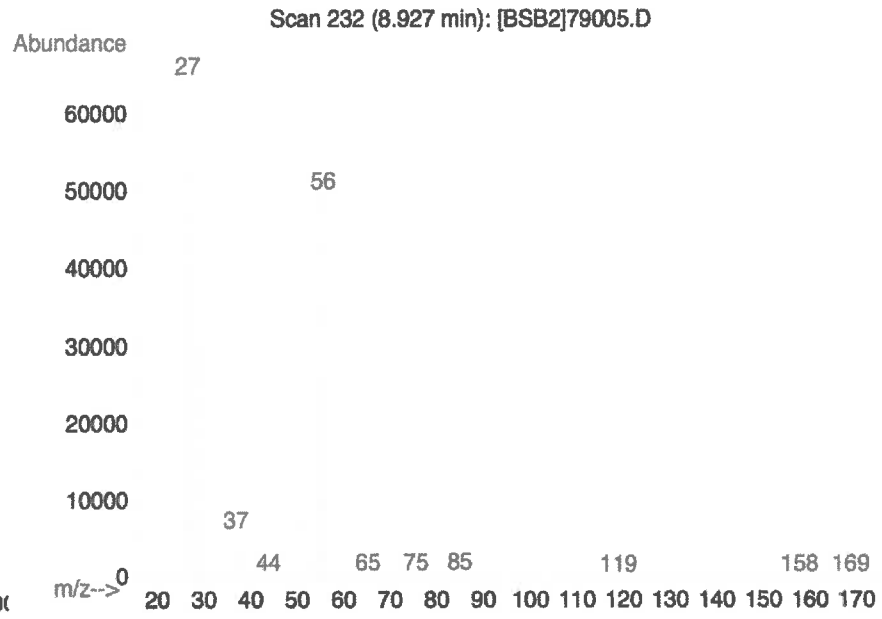
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	091525 DATE
Reviewed By:	Pedro L. Rentas	091525 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

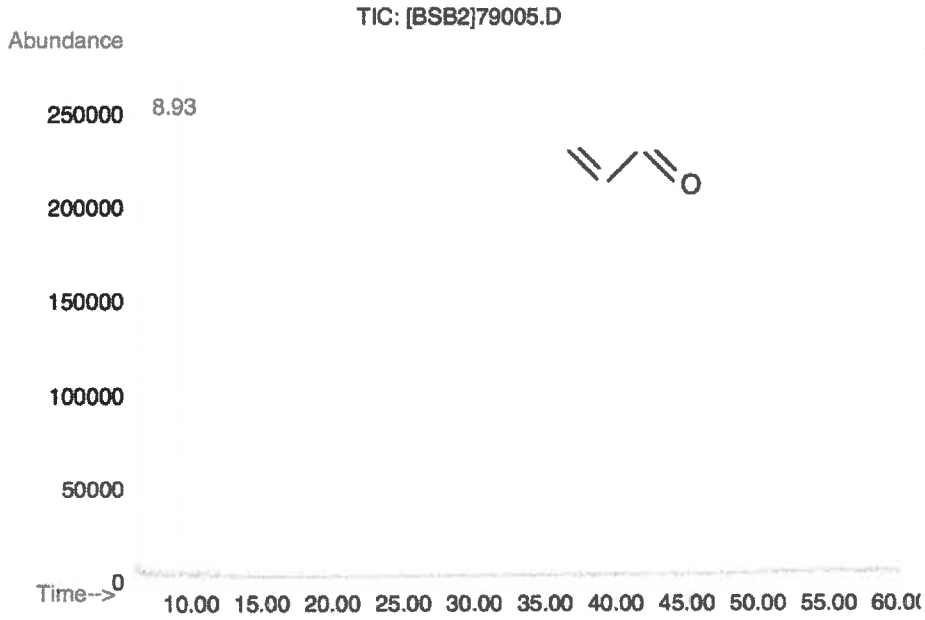
V15064 to V15068

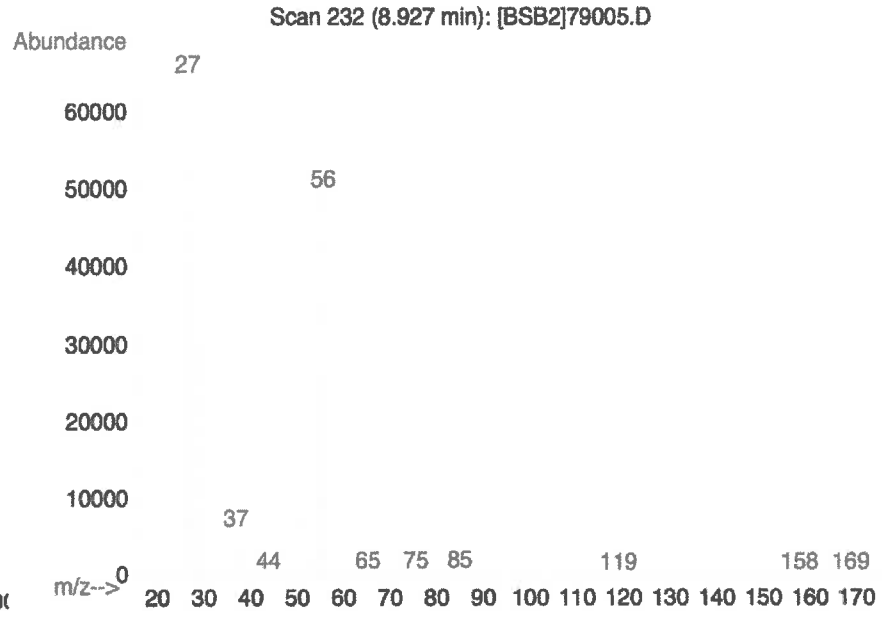
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Rev 1.0, 2/25/2025

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q3195

COC Number: 01

CLIENT INFORMATION

COMPANY: TechLaw Consultants, Inc.
ADDRESS: 14840 Conference Center Drive
CITY: Chantily STATE: VA ZIP: 20151
ATTENTION: Jon Dziekan / Alex Kantner
PHONE: 571-538-2270 FAX:

PROJECT INFORMATION

PROJECT NAME: REAC Commodore
PROJECT #: 83150-F0066 LOCATION: Audubon, PA
PROJECT MANAGER: Jon Dziekan / Alex Kantner
E-MAIL: jonathan.dziekan@techlawconsultants.com
PHONE: 571-538-2270 FAX:

BILLING INFORMATION

BILL TO: See Contract for Billing Information
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX:_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☑ RESULTS ONLY ☑ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other_____
☐ EDD Format_____

ANALYSIS

	8260D								
	1	2	3	4	5	6	7	8	9

PRESERVATIVES

	A								
	1	2	3	4	5	6	7	8	9

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles
1.	MOS-18-092225	GW		X	9/22/2025	12:08	2
2.	MW-1-091725	GW		X	9/17/2025	16:00	2
3.	MW-3-091525	GW		X	9/15/2025	17:40	2
4.	MW-4-091625	GW		X	9/16/2025	12:20	2
5.	MW-6-091625	GW		X	9/16/2025	13:35	2
6.	MW-19D-092225	GW		X	9/22/2025	17:05	2
7.	MW-19M-092325	GW		X	9/23/2025	9:32	2
8.	MW-21M-091925	GW		X	9/19/2025	16:25	2
9.	MW-22-091825	GW		X	9/18/2025	18:30	2
10.	MW-23-092325	GW		X	9/23/2025	13:25	2
11.	MW-24-091925	GW		X	9/19/2025	16:10	2
12.	MW-26-091925	GW		X	9/19/2025	11:18	2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	9/24/25 1700	1.
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.	9/25/25 945	2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.1 °C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? Yes
Comments:

IR Gun #1

Page 1 of 3

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☑ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q3195

COC Number: 08

CLIENT INFORMATION

COMPANY: TechLaw Consultants, Inc.
ADDRESS: 14840 Conference Center Drive
CITY: Chantily STATE: VA ZIP: 20151
ATTENTION: Jon Dziekan / Alex Kantner
PHONE: 571-538-2270 FAX:

PROJECT INFORMATION

PROJECT NAME: REAC Commodore
PROJECT #: 83150-F0066 LOCATION: Audubon, PA
PROJECT MANAGER: Jon Dziekan / Alex Kantner
E-MAIL: jonathan.dziekan@techlawconsultants.com
PHONE: 571-538-2270 FAX:

BILLING INFORMATION

BILL TO: See Contract for Billing information
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX:_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☑ RESULTS ONLY ☑ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other_____
☐ EDD Format_____

ANALYSIS

	8260D								
	1	2	3	4	5	6	7	8	9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	MW-26-091925-FD	GW		X	9/19/2025	11:18	2	2										
2.	MW-29-092325	GW		X	9/23/2025	16:45	2	2										
3.	MW-31S-091825	GW		X	9/18/2025	14:20	2	2										
4.	MW-31D-091825	GW		X	9/18/2025	13:50	2	2										
5.	MW-31D-091825-FD	GW		X	9/18/2025	13:50	2	2										
6.	MW-32S-091725	GW		X	9/17/2025	11:30	2	2										
7.	MW-33D-091725	GW		X	9/17/2025	9:30	2	2										
8.	MW-33D-091725-MS	GW		X	9/17/2025	9:30	2	2										
9.	MW-33D-091725-MSD	GW		X	9/17/2025	9:30	2	2										
10.	RW-1-092425	GW		X	9/24/2025	8:15	2	2										
11.	EB-01-091925	Equip Blank		X	9/19/2025	16:30	2	2										
12.	EB-02-092225	Equip Blank		X	9/22/2025	17:20	2	2										

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.		9/25/25 1703	1.
2.	RELINQUISHED BY	DATE/TIME 9/25/25 945	RECEIVED BY 2.
3.	RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.1 °C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: YES
Comments:

IR Gun # 1

Page 2 of 3

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☑ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q3195

COC Number: 03

CLIENT INFORMATION

COMPANY: TechLaw Consultants, Inc.
ADDRESS: 14840 Conference Center Drive
CITY: Chantily STATE: VA ZIP: 20151
ATTENTION: Jon Dziekan / Alex Kantner
PHONE: 571-538-2270 FAX:

PROJECT INFORMATION

PROJECT NAME: REAC Commodore
PROJECT #: 83150-F0066 LOCATION: Audubon, PA
PROJECT MANAGER: Jon Dziekan / Alex Kantner
E-MAIL: jonathan.dziekan@techlawconsultants.com
PHONE: 571-538-2270 FAX:

BILLING INFORMATION

BILL TO: See Contract for Billing Information
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX:_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☑ RESULTS ONLY ☑ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other_____
☐ EDD Format_____

ANALYSIS

	8260D								
	1	2	3	4	5	6	7	8	9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	FB-01-091925	Field Blank		X	9/19/2025	16:45	2	2										
2.	FB-02-092225	Field Blank		X	9/22/2025	17:10	2	2										
3.	TB-01-091525	Trip Blank		X	9/15/2025	14:50	2	2										
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		
12.																		

PRESERVATIVES: <-- Specify Preservatives
A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other

COMMENTS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER 1.	DATE/TIME 9/24/25 1700	RECEIVED BY 1.	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.1°C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? yes Comments:
RELINQUISHED BY 2.	DATE/TIME 9/25/25 945	RECEIVED BY 2.	
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.	

Page 3 of 3

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☑ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

From: Burden, Jim <Jim.Burden@TechLawInc.com>
Sent: Thursday, October 30, 2025 11:33 AM
To: Jordan Hedvat <jordan.hedvat@alliancetg.com>
Cc: Dziekan, Jonathan <jonathan.dziekan@techlawconsultants.com>; Mazzuca, Carolyn <Carolyn.Mazzuca@TechLawInc.com>
Subject: Commodore - Level 4 package needed

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caut... opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Jordan

Per our conversation, TechLaw needs the Level 4 report to complete validation fore this project and complete our client dleiverables. Thank you for checking on it for me and please let me know if you need any further information.

Thanks,

Jim Burden

TechLaw Consultants, Inc.

571-202-1422 (work cell)

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

Laboratory Certification

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3195 TECH05
Client Name : TechLaw Consultants, Inc
Client Contact : Jonathan Dziekan
Invoice Name : TechLaw Consultants, Inc
Invoice Contact : Jonathan Dziekan

Order Date : 9/25/2025 10:11:00 AM
Project Name : REAC Commodore
Receive DateTime : 9/25/2025 9:45:00 AM
Purchase Order :

Project Mgr : Deepak
Report Type : Level 2
EDD Type : Equis Region2(MEDD)
Hard Copy Date :
Date Signoff : 9/25/2025 11:57:46 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3195-01	MOS-18-092225	Water	09/22/2025	12:08					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q3195-02	MW-1-091725	Water	09/17/2025	16:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q3195-03	MW-3-091525	Water	09/15/2025	17:40					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q3195-04	MW-4-091625	Water	09/16/2025	12:20					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q3195-05	MW-6-091625	Water	09/16/2025	13:35					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q3195-06	MW-19D-092225	Water	09/22/2025	17:05					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q3195-07	MW-19M-092325	Water	09/23/2025	09:32					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q3195-08	MW-21M-091925	Water	09/19/2025	16:25					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3195 TECH05
Client Name : TechLaw Consultants, Inc
Client Contact : Jonathan Dziekan
Invoice Name : TechLaw Consultants, Inc
Invoice Contact : Jonathan Dziekan

Order Date : 9/25/2025 10:11:00 AM
Project Name : REAC Commodore
Receive DateTime : 9/25/2025 9:45:00 AM
Purchase Order :

Project Mgr : Deepak
Report Type : Level 2
EDD Type : Equis Region2(MEDD)
Hard Copy Date :
Date Signoff : 9/25/2025 11:57:46 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-09	MW-22-091825	Water	09/18/2025	18:30					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-10	MW-23-092325	Water	09/23/2025	13:25					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-11	MW-24-091925	Water	09/19/2025	16:10					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-12	MW-26-091925	Water	09/19/2025	11:18					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-13	MW-26-091925-FD	Water	09/19/2025	11:18					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-14	MW-29-092325	Water	09/23/2025	16:45					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-15	MW-31S-091825	Water	09/18/2025	14:20					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3195 TECH05
Client Name : TechLaw Consultants, Inc
Client Contact : Jonathan Dziekan
Invoice Name : TechLaw Consultants, Inc
Invoice Contact : Jonathan Dziekan

Order Date : 9/25/2025 10:11:00 AM
Project Name : REAC Commodore
Receive DateTime : 9/25/2025 9:45:00 AM
Purchase Order :

Project Mgr : Deepak
Report Type : Level 2
EDD Type : Equis Region2(MEDD)
Hard Copy Date :
Date Signoff : 9/25/2025 11:57:46 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3195-16	MW-31D-091825	Water	09/18/2025	13:50					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-17	MW-31D-091825-FD	Water	09/18/2025	13:50					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-18	MW-32S-091725	Water	09/17/2025	11:30					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-19	MW-33D-091725	Water	09/17/2025	09:30					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-20	Q3195-19MS	Water	09/17/2025	09:30					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-21	Q3195-19MSD	Water	09/17/2025	09:30					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-22	RW-1-092425	Water	09/24/2025	08:15					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q3195-23	EB-01-091925	Water	09/19/2025	16:30					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3195 TECH05
Client Name : TechLaw Consultants, Inc
Client Contact : Jonathan Dziekan
Invoice Name : TechLaw Consultants, Inc
Invoice Contact : Jonathan Dziekan

Order Date : 9/25/2025 10:11:00 AM
Project Name : REAC Commodore
Receive DateTime : 9/25/2025 9:45:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 2
EDD Type : Equis Region2(MEDD)
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q3195-24	~~EB-02-09225~~ EB-02-092225	Water	09/22/2025	17:20						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q3195-25	FB-01-091925	Water	09/19/2025	16:45						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q3195-26	FB-02-092225	Water	09/22/2025	17:10						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
Q3195-27	TB-01-091525	Water	09/15/2025	14:50						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		

Relinguished By :
Date / Time : 9/25/25 1135

Received By :
Date / Time : 09/25/25 11:35

Storage Area : **VOA Refridgerator Room**